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MIPR NO: 92MM2594

**TITLE: INTEGRATION OF THE MOLECULAR SIEVE OXYGEN GENERATING
SYSTEM (MSOGS) INTO THE UH-60Q MEDEVAC BLACKHAWK**

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Orlando Cordero-Montalvo**

**CONTRACTING ORGANIZATION: SERVAIR
Lexington Bluegrass Army Depot
Lexington, Kentucky 40511 -5125**

REPORT DATE: March 11, 1994

TYPE OF REPORT: Final Report

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Fort Detrick, Frederick, Maryland 21702-5012**

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REPORT DOCUMENTATION PAGE

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13. ABSTRACT (Maximum 200 words) A Molecular Sieve Oxygen Generated System (MSOGS) was integrated in the UH-60Q Medevac Helicopter as part of the requirements of this program. Support equipment for the system operation was also integrated in this effort. Problems such as intake air sources, air flow cooling and moisture build-up were addressed. Functional and performance tests were conducted by personnel from the United States Army Aeromedical Research Laboratory. As a result of the integration effort a more simple and efficient method of installing the MSOGS unit and its supporting systems will be developed. Emphasis will be on the servicing of the oxygen lines on the field to make the system user friendly.			
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Introduction

The UH60Q Proof of Concept medical evacuation helicopter required the installation of a patient, continuous oxygen supply system. The Litton MSOGS (Molecular Sieve Oxygen Generating System) part no. 3261093, used on the F-15E, was selected by the United States Army Medical Research and Development Command to be incorporated in to the UH60Q package. Serv-Air Inc. had the tasking of installing this system on the UH60Q. All the functional and qualifications tests were done by the United States Army Aeromedical Research Laboratory. All the structural modifications and systems integration were done by Serv-Air Inc.

The systems integration performed by SAI included the design of the structural modifications required to install the system, the routing of oxygen lines to the delivery ports, power integration, and intake air supply. Materials selection, hardware and safety requirements such as airworthiness were also addressed. The installation of support systems like a purity sensor, flow regulator, heat exchanger, and shut-off valve were also part of the integration effort.

System layout description

The MSOGS unit is installed between STA 485 and STA 505 on WL 209, LBL 7.0, on the transition area of the aircraft. The unit is mounted on an aluminum honeycomb tray, which is supported by two extruded aluminum angles integrated to the basic airframe. This location was selected for easy maintenance and installation/removal of the unit. Furthermore since the source of air supply is the APU bleed air tube, this location is ideal for that purpose.

In order to keep the intake air at a temperature of at least no more than 80 deg.F, and to reduce moisture build up due to condensation, a heat exchanger was installed. The heat exchanger is composed of a radiator/diffuser with a fan that discharges the warm air outboard. Aluminum extruded shapes are the main structural supports for the system. The heat exchanger is located at STA 468, WL 239, LBL 32.0.

A shut-off valve was installed to cut the air supply to the MSOGS from the APU intake in the event that more power was required to the aircraft engines. It is located at LBL 32.0, STA 468, WL 221. The shut-off valve is held in place by standard aluminum shapes.

An oxygen purity sensor monitors the concentration of oxygen delivered to the patient, which must be at least a 93% concentration of pure oxygen. Another support mechanism is the oxygen flow regulator. Its function is to ensure that oxygen is delivered at a rate of 27 liters per minute. It is located at STA 495, WL 220, RBL 29.5, which is opposite to the oxygen sensor position. The location of these support systems responded mainly to the space available and the routing of the system lines. The supporting structure for these two items consist of extruded aluminum shapes or formed aluminum parts integrated to the airframe and fastened with standard aircraft hardware.

As a result of the amount of equipment installed for other systems, the routing developed for the oxygen lines was based on the space available for routing, but at the same time serviceability was an important factor too. The oxygen lines were made of 5052-0 aluminum tubing with diameters ranging from .50 in. to .375 in. and type 302/304 cres (corrosion resistant steel) with a diameter of .25 in. The fittings used to join the lines are standard AN and MS flared fittings.

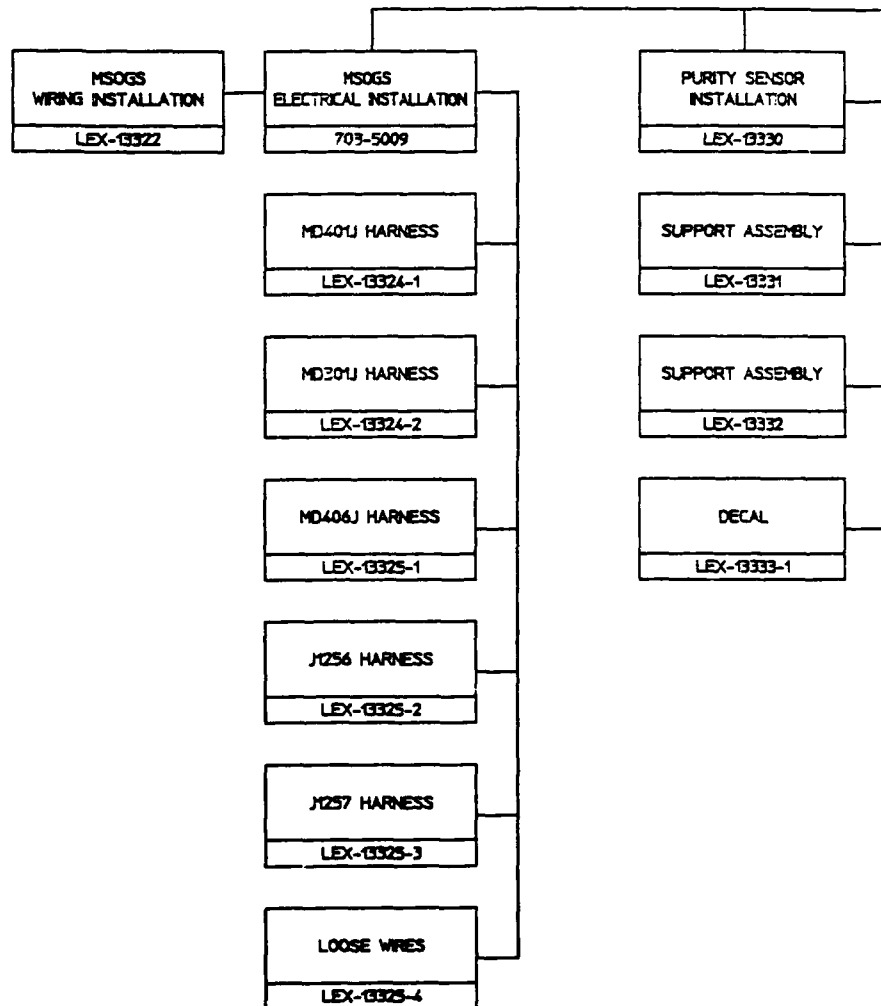
Conclusions

The integration of the MSOGS system on the UH60Q was accomplished without any major difficulties. A more efficient method of installing and servicing the oxygen lines is being explored. All other support systems locations make them user friendly for replacement and servicing.

NOTES

1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12

(1)



ZONE	REV	DESCRIPTION
		CAD GENERATED

MSOGS
DRAWING TREE
LEX-13320

MSOGS
KIT
LEX-13321

2

SEE SHEET 2 FOR CONTINUATION

PURITY SENSOR
INSTALLATION
LEX-13330

SUPPORT ASSEMBLY
LEX-13331

SUPPORT ASSEMBLY
LEX-13332

DECAL
LEX-13333-1

FLOW SENSOR
INSTALLATION
LEX-13337

DECAL
LEX-13333-2

ANGLE SUPPORT
LEX-13334

SOLENOID SHUT OFF
VALVE INSTALLATION
LEX-13345

DECAL
LEX-13333-3

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LEX-13335

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LEX-13336

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				MSOGS DRAWING TREE				
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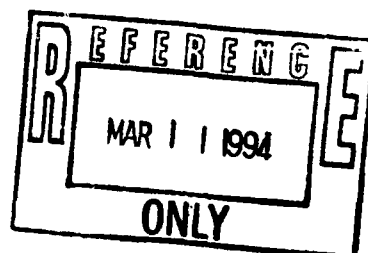
SEE SHEET 2 FOR CONTINUATION

SOLENOID SHUT OFF
VALVE INSTALLATION
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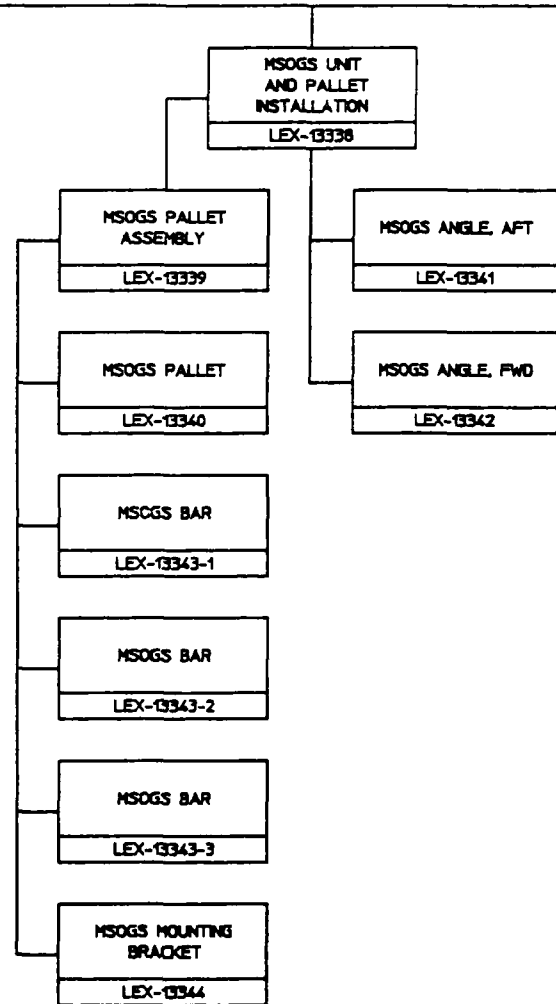
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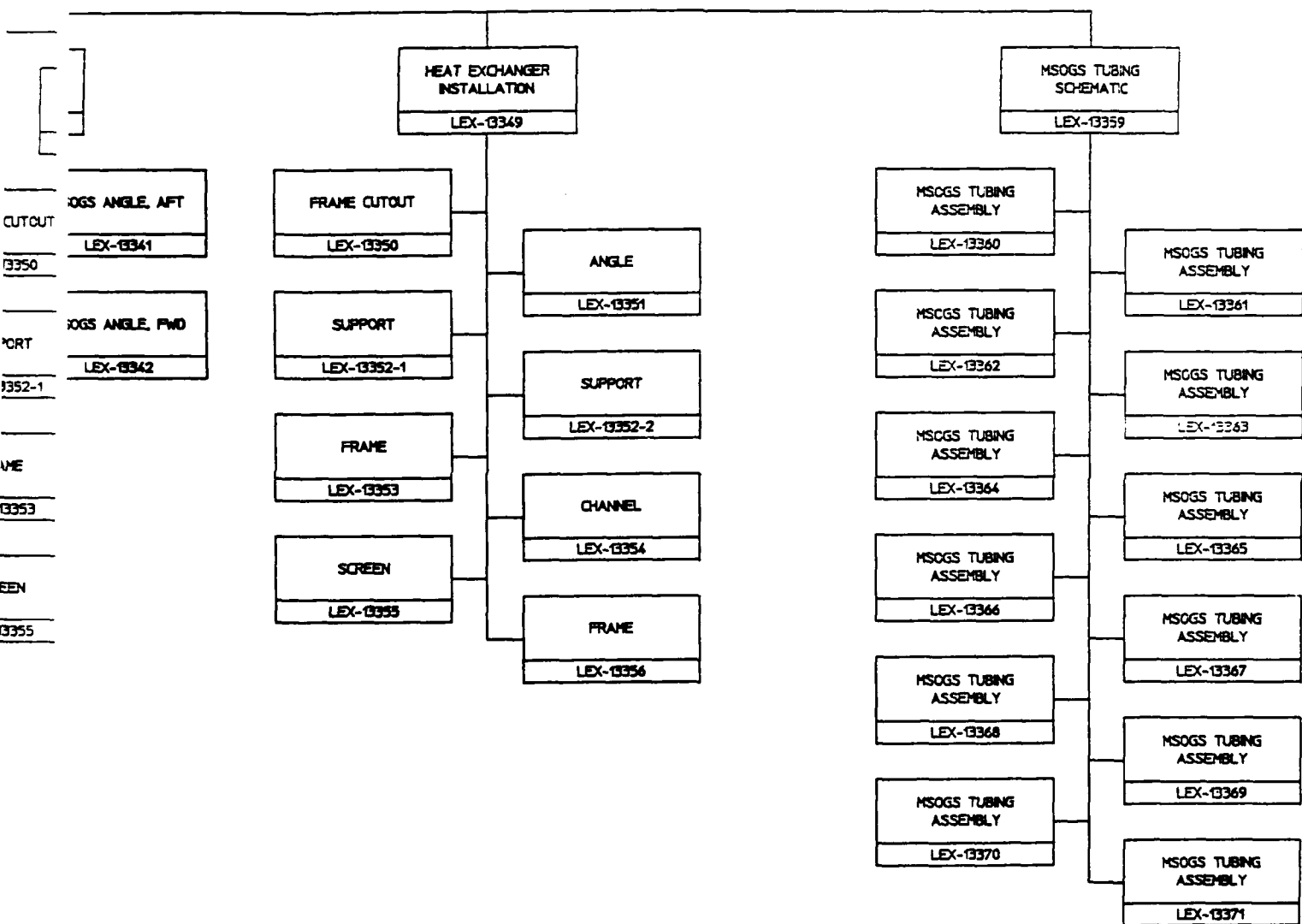
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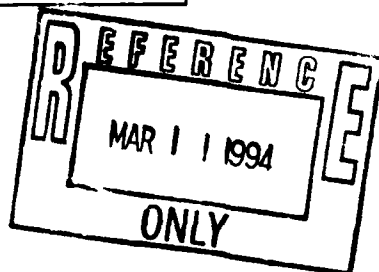
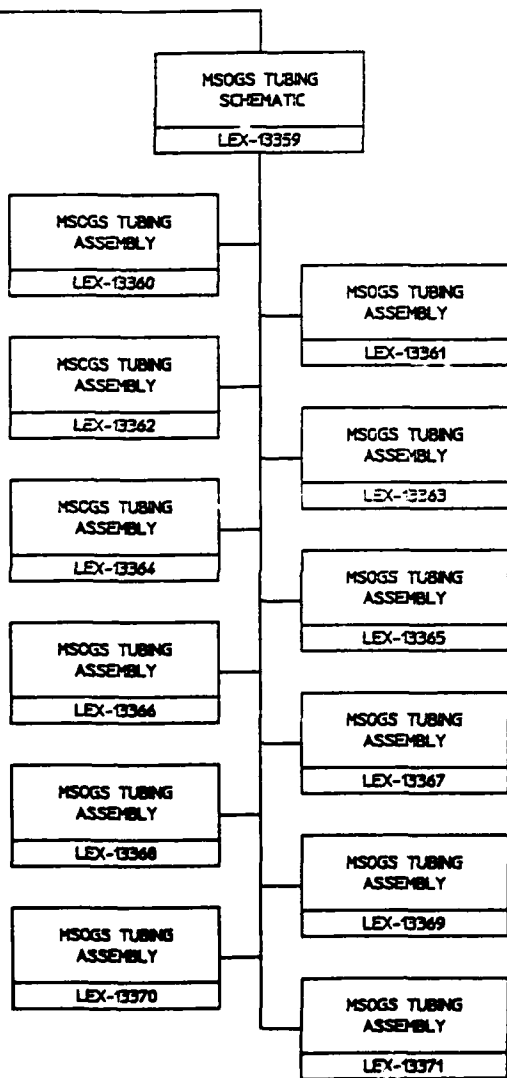
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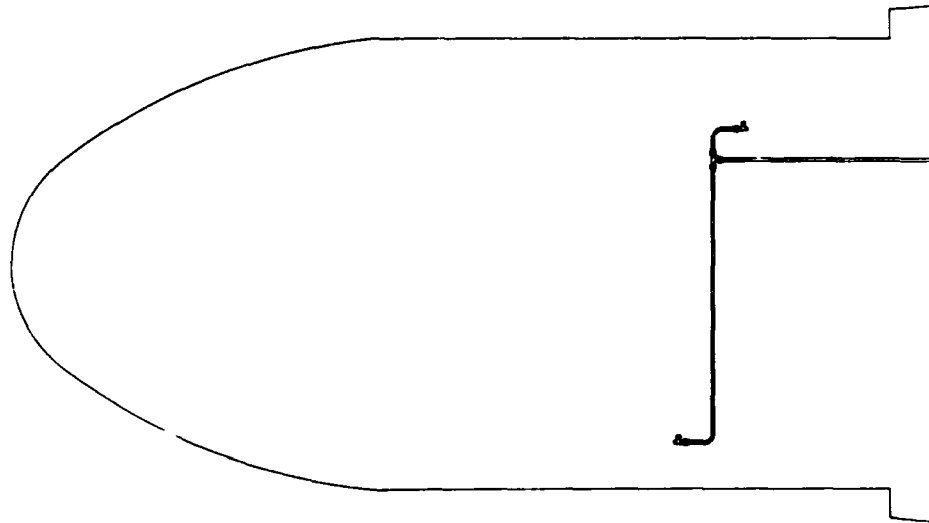
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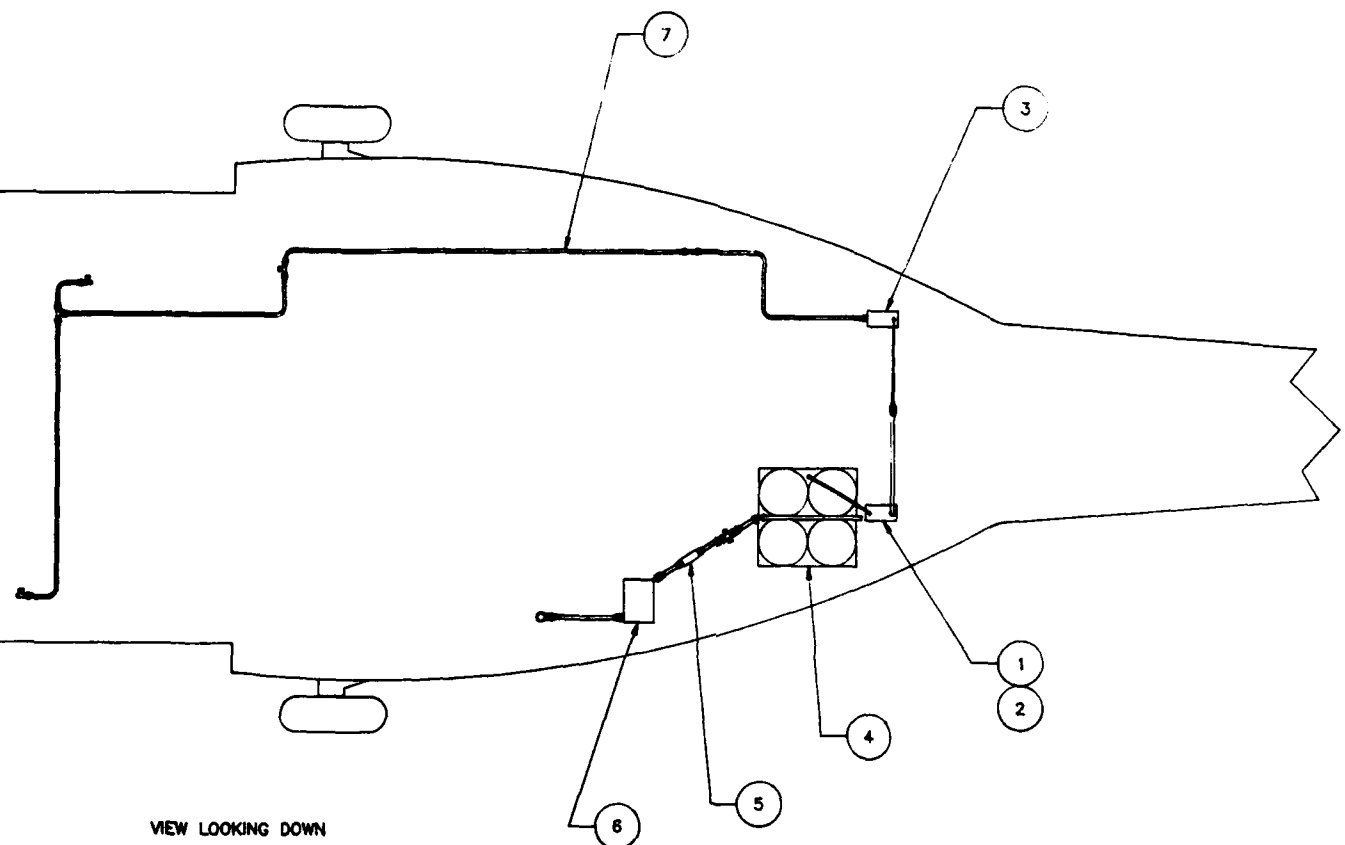
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VIEW LOOKING

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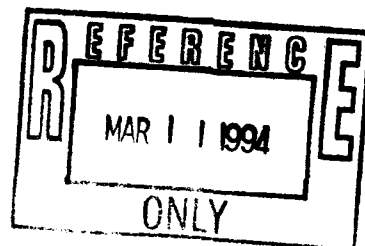
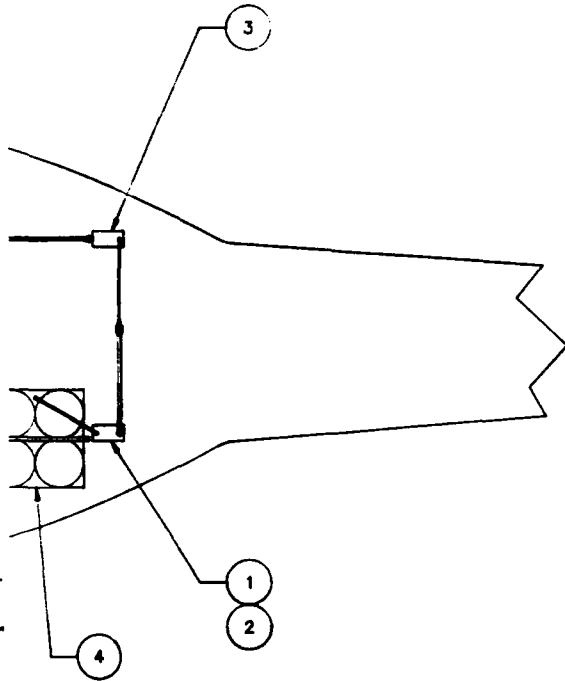
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REFE
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1	MSOGS TUBING SCHEM	LEX-13359
1	HEAT EXCHANGE INSTL	LEX-13349
1	SOLENOID SHUT OFF VALVE INSTL	LEX-13345
1	MSOG UNIT AND PALLET INSTL	LEX-13338
1	FLOW SENSOR INSTL	LEX-13337
1	PURITY SENSOR INSTL	LEX-13330
1	MSOGS ELEC INSTL	703-5009
X	MSOGS KIT	LEX-13321

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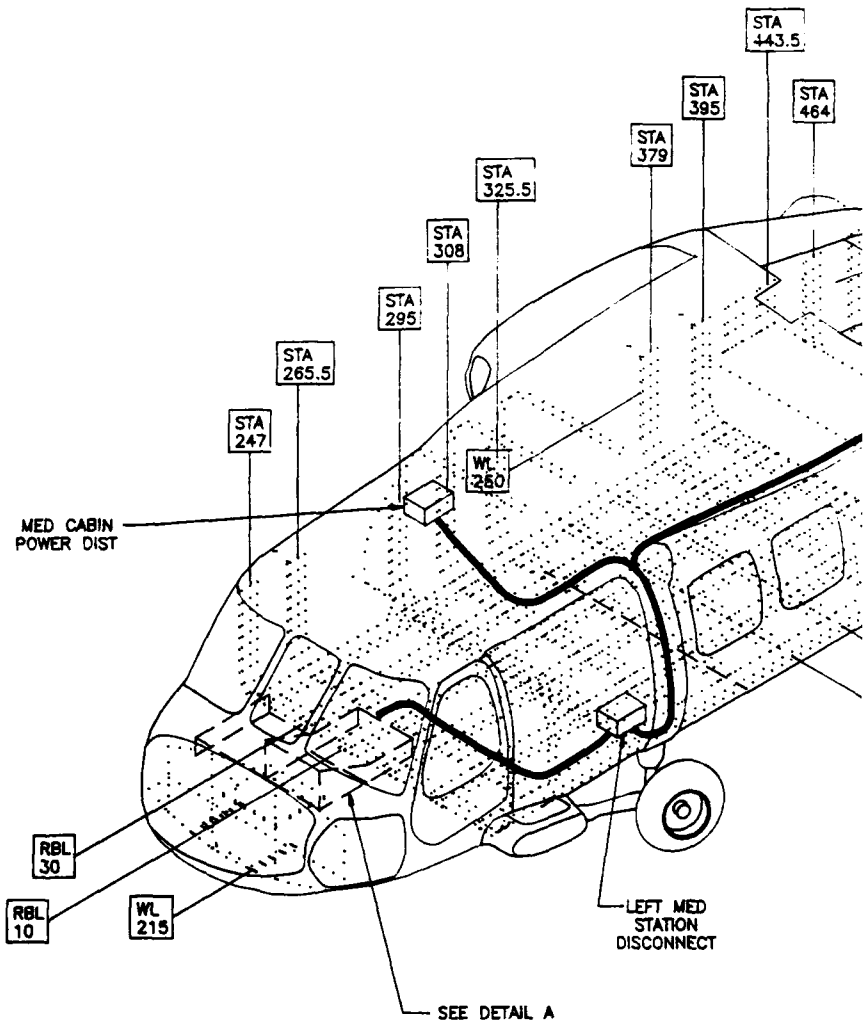
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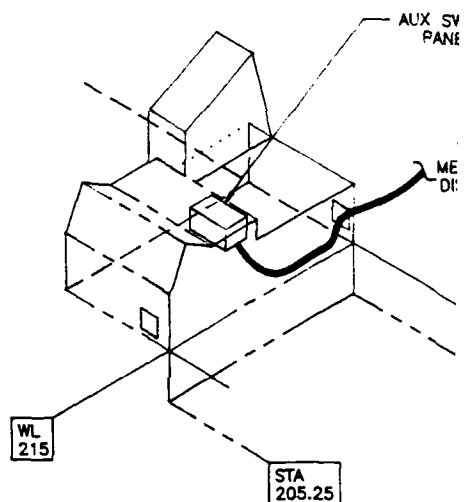
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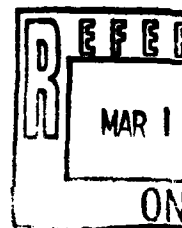


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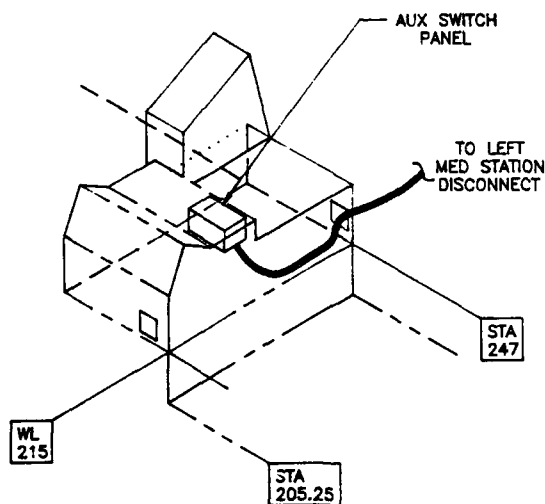


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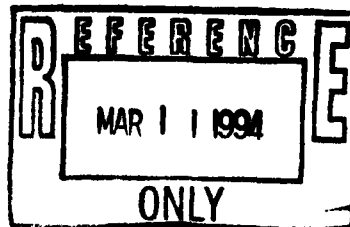


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APPLICATION		NONE					

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DETAIL A
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INSTRUMENT PANEL



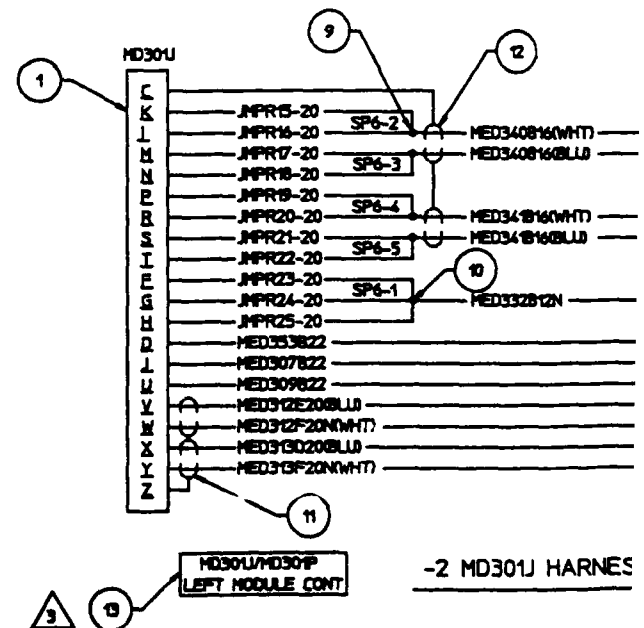
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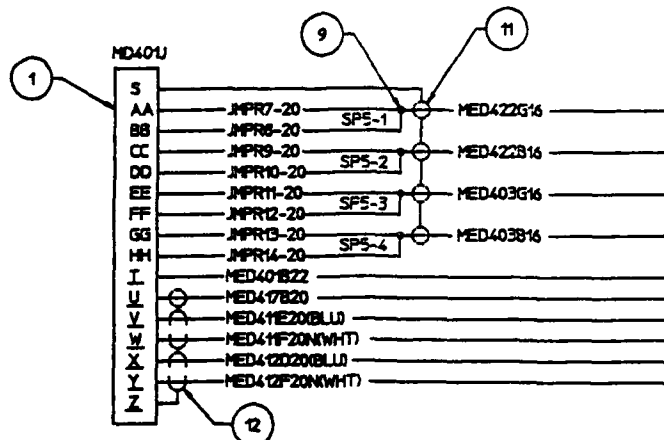
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2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. STAMP CONNECTOR IDENTIFIERS AS SHOWN PER MIL-STD-130
4. FABRICATE AND INSPECT PER MIL-W-5088L

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JNPR8-20	MD401U-BB	SP5-1	3	6'
JNPR9-20	MD401U-CC	SP5-2	3	6'
MED422B16	SP5-2	SP5-6	5	500"
JNPR10-20	MD401U-DD	SP5-2	3	6'
JNPR11-20	MD401U-EE	SP5-3	3	6'
MED403G16	SP5-3	SP5-7	5	500"
JNPR12-20	MD401U-FF	SP5-3	3	6'
JNPR13-20	MD401U-GG	SP5-4	3	6'
MED403B16	SP5-4	SP5-8	5	500"
JNPR14-20	MD401U-HH	SP5-4	3	6'
MED401B22	MD401U-II	SP4-1	4	500"
MED417B20	MD401U-JJ	MD406J-UJ	7	500"
MED41E20BLU	MD401U-V	MD41P	8	500"
MED41F20N(WHT)	MD401U-W	MD41P	8	500"
MED41D20BLU	MD401U-X	MD41P	8	500"
MED412F20N(WHT)	MD401U-Y	MD41P	8	500"

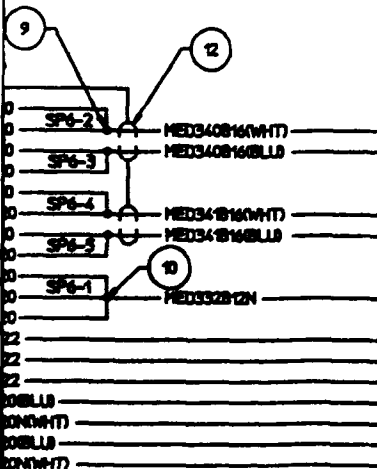
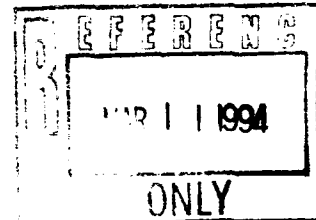
WIRE TABLE				
WIRE NO.	FROM	TO	FIND	LENGTH
JNPR15-20	MD301U-K	SP6-2	3	6'
JNPR16-20	MD301U-L	SP6-2	3	6'
MED340B16(WHT)	SP6-2	SP6-7	6	500"
JNPR17-20	MD301U-M	SP6-3	3	6'
MED340B16BLU	SP6-3	SP6-8	6	500"
JNPR18-20	MD301U-N	SP6-3	3	6'
JNPR19-20	MD301U-O	SP6-4	3	6'
JNPR20-20	MD301U-P	SP6-4	3	6'
MED341B16(WHT)	SP6-4	SP6-9	6	500"
JNPR21-20	MD301U-Q	SP6-5	3	6'
MED341B16BLU	SP6-5	SP6-10	6	500"
JNPR22-20	MD301U-R	SP6-5	3	6'
JNPR23-20	MD301U-S	SP6-1	3	6'
JNPR24-20	MD301U-T	SP6-1	3	6'
MED332B12N	SP6-1	SP6-6	2	500"
JNPR25-20	MD301U-U	SP6-1	3	6'
MED307B22	MD301U-V	MD401U-D	4	500"
MED307B22	MD301U-W	MD401U-E	4	500"
MED307B22	MD301U-X	SP4-1	4	500"
MED312E20BLU	MD301U-Y	MD302P	8	500"
MED312F20N(WHT)	MD301U-Z	MD302P	8	500"
MED313D20BLU	MD301U-A	MD302P	8	500"
MED313F20N(WHT)	MD301U-B	MD302P	8	500"



WIRE TABLE			
FROM	TO	FND	LENGTH
MD401U-AA	SP5-1	3	6'
SP5-1	SP5-5	5	500'
MD401U-BB	SP5-1	3	6'
MD401U-CC	SP5-2	3	6'
SP5-2	SP5-6	5	500'
MD401U-DD	SP5-2	3	6'
MD401U-EE	SP5-3	3	6'
SP5-3	SP5-7	5	500'
MD401U-FF	SP5-3	3	6'
MD401U-GG	SP5-4	3	6'
SP5-4	SP5-8	5	500'
MD401U-HH	SP5-4	3	6'
MD401U-II	SP4-1	4	500'
MD401U-JJ	MD406J-JJ	7	500'
MD401U-KK	MD41P	8	500'
MD401U-LL	MD41P	8	500'
MD401U-MM	MD41P	8	500'
MD401U-NN	MD41P	8	500'



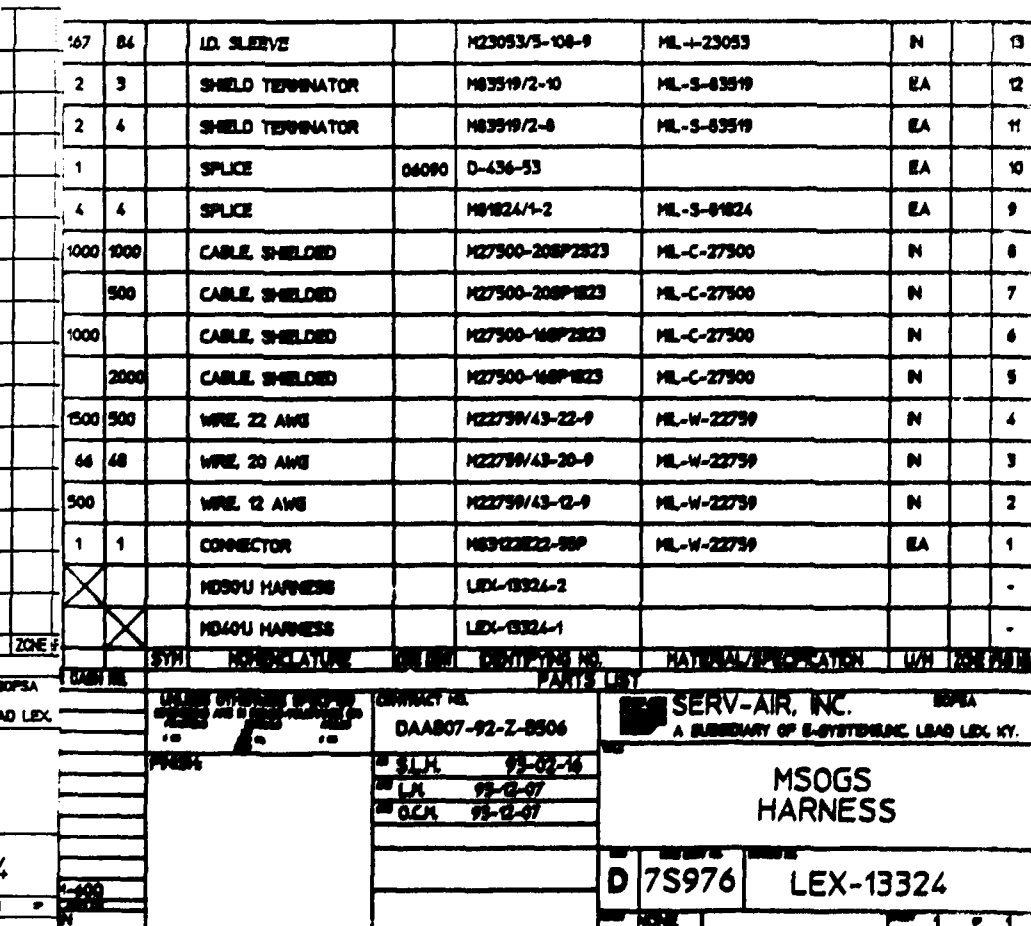
-1 MD401J HARNESS



-2 MD301U HARNESS

167	84	LD. SLEEVE	M23053/5-108-9	MIL-S-23053
2	3	SHIELD TERMINATOR	M83519/2-10	MIL-S-83519
2	4	SHIELD TERMINATOR	M83519/2-8	MIL-S-83519
1		SPLICE	06090 D-436-53	
4	4	SPLICE	M81824/1-2	MIL-S-81824
1000	1000	CABLE, SHIELDED	M27500-20SP2S23	MIL-C-27500
	500	CABLE, SHIELDED	M27500-20SP1S23	MIL-C-27500
1000		CABLE, SHIELDED	M27500-16SP2S23	MIL-C-27500
	2000	CABLE, SHIELDED	M27500-16SP1S23	MIL-C-27500
1500	500	WIRE, 22 AWG	M22759/43-22-9	MIL-W-22759
66	48	WIRE, 20 AWG	M22759/43-20-9	MIL-W-22759
500		WIRE, 12 AWG	M22759/43-12-9	MIL-W-22759
1	1	CONNECTOR	M53022E22-55P	MIL-W-22759
		MD301U HARNESS	LEX-13324-2	
		MD401U HARNESS	LEX-13324-1	

QUANTITY REQUIRED PER DASH NO.	SYM	NOMENCLATURE	QTY DSH	IDENTIFYING NO.	MATERIAL/SPECIFICATION
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS ON FRACTIONS ARE IN INCHES-DECIMALS ON FRACTIONS ARE IN INCHES-DECIMALS ON FRACTIONS ARE IN INCHES-DECIMALS ON					
CONTRACT NO. DAAB07-92-Z-8506					
SERV-AIR, INC. A SUBSIDIARY OF E-SYSTEMS					
MSOGS HARNESS					
D 7S976 LEX-13					
NONE					

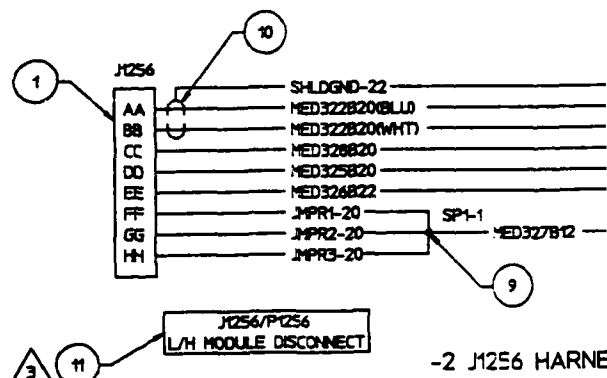


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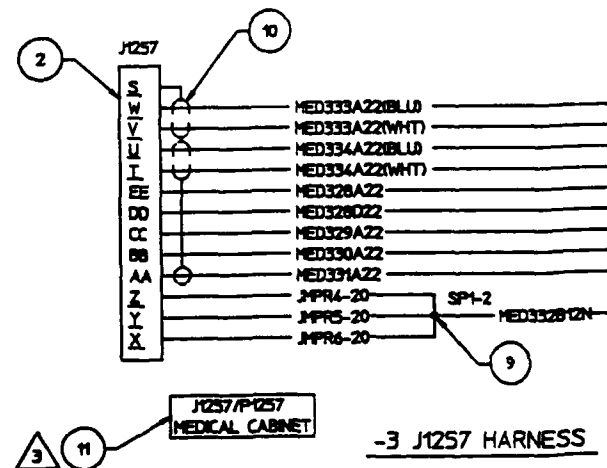
1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. STAMP CONNECTOR IDENTIFIERS AS SHOWN PER MIL-STD-130
4. FABRICATE AND INSPECT PER MIL-W-5088L

WIRE TABLE			
WIRE NO.	FROM	TO	FIND
MED413822	MD406J-I	SP4-1	5
MED417020(BLU)	MD406J-V	MD413P	7
MED417120(NWHT)	MD406J-W	MD413P	7
MED418020(BLU)	MD406J-X	CAP	7
MED418020(NWHT)	MD406J-Y	CAP	7

WIRE TABLE				
WIRE NO.	FROM	TO	FIND	LENGTH
SHLDGND-22	SHIELD	GND	5	72"
MED322820(BLU)	J256-AA	RELAY	7	500"
MED322820(NWHT)	J256-BB	RELAY	7	500"
MED326820	J256-CC	RELAY-X1	4	500"
MED325820	J256-DD	P1259-A	4	500"
MED326822	J256-EE	P1260-3	5	500"
JMPR1-20	J256-FF	SP1-1	4	6"
JMPR2-20	J256-GG	SP1-1	4	6"
MED327812	SP1-1	SP1-2	3	500"
JMPR3-20	J256-HH	SP1-1	4	6"



WIRE TABLE				
WIRE NO.	FROM	TO	FIND	LENGTH
MED333A22(BLU)	J257-W	P1261-2	8	500"
MED333A22(NWHT)	J257-V	P1261-10	8	500"
MED334A22(BLU)	J257-U	P1261-2	8	500"
MED334A22(NWHT)	J257-T	P1261-1	8	500"
MED328A22	J257-EE	ENSW-1	5	500"
MED328022	J257-DD	RELAY-X2	5	500"
MED329A22	J257-CC	P1258-2	5	500"
MED330A22	J257-BB	P1259-C	5	500"
MED331A22	J257-AA	P1259-D	6	500"
JMPR4-20	J256-Z	SP1-2	4	6"
JMPR5-20	J257-Y	SP1-2	4	6"
MED332812N	SP1-2	MEDTB-3	3	500"
JMPR6-20	J257-X	SP1-2	4	6"



WIRE TABLE				
WIRE NO.	FROM	TO	FIND	LENGTH
MED322C20(BLU)	RELAY	P1258-12	7	72"
MED322C20(NWHT)	RELAY	P1258-13	7	72"
MED324020N	ENSW-2	GND	4	72"
MED413C22	SP4-1	P1088-J	5	500"
MED413P20N	GND	P1088-K	4	500"

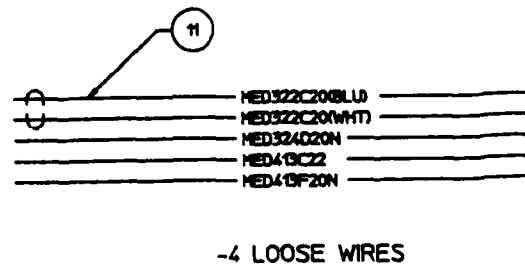


Diagram illustrating the MD406J/MD406P AFT Module Connector Pinout. The connector is labeled MD406J/MD406P AFT MODULE CONT. The pins are labeled I, V, W, X, Y, Z. The connections are as follows:

- Pin 1: MED41B8Z2
- Pin 10: MED417G20(BLU)
- Pin 11: MED417H120(NWHT)
- Pin 12: MED418D20(BLU)
- Pin 13: MED418E20(NWHT)

The diagram is labeled -1 MD406J HARNESS.

-1 MD406J HARNESS

4256
DISCONNECT

-2 J1256 HARNESS


REF ID: A66047
MAR 11 1994
ONLY

7
NET

-3 J1257 HARNESS

-4 LOOSE WIRES

6	84	42	84		LD. SLEEVE		M23053/5-106-9	MIL-23053
	3	1	2		SHIELD TERMINATOR		M83519/2-8	MIL-S-83519
	1	1			SPLICE	06090	D-436-53	
	1000				CABLE, SHIELDED		M27500-22SP2S23	MIL-C-27500
72		500	1000		CABLE, SHIELDED		M27500-20SP2S23	MIL-C-27500
	500				CABLE, SHIELDED		M27500-22SP1S23	MIL-C-27500
500	2000	572	500		WIRE, 22 AWG		M22759/43-22-9	MIL-W-22759
572	18	1018			WIRE, 20 AWG		M22759/43-20-9	MIL-W-22759
	500	500			WIRE, 12 AWG		M22759/43-12-9	MIL-W-22759
	1				CONNECTOR		MS3122E22-55S	
		1	1		CONNECTOR		MS3122E22-55P	
X					LOOSE WIRES		LEX-13325-4	
	X				J1257 HARNESS		LEX-13325-3	
		X			J1256 HARNESS		LEX-13325-2	
			X		MD406J HARNESS		LEX-13325-1	

	-4	-3	-2	-1	SYM	NOMENCLATURE	CODE DESC	IDENTIFYING NO.	MATERIAL/SPECIFICATION
QUANTITY REQUIRED PER DASH NO.					PARTS LIST				
<div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCES ARE FRACTIONS DECIMALS ANGLES .XX .XXX .XXX</div>					CONTRACT NO.		<div>SERV-AIR, INC. A SUBSIDIARY OF E-SYSTEMS</div>		
					DAAB07-92-Z-8506				
FRESH					SLH 93-01-16		MSOGS HARNES		
					LM 93-02-07				
					OCH 93-02-07				
703-5009 LM-600							D 7S976		LEX-
APPLICATION							NONE		

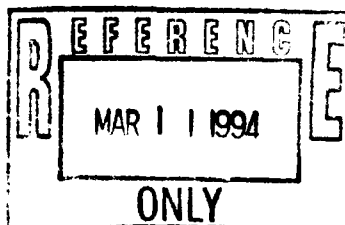
1	3	2	1
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ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-01-16	

MED413822 _____
 MED417G2018LU _____
 MED417H2018WHT _____
 MED418G2018LU _____
 MED418E2018WHT _____

MD406J/MD406P
MODULE CONT

-1 MD406J HARNESS



6	84	42	84		LD. SLEEVE		M23053/5-106-9	ML-I-23053	N	11
	3	1	2		SHIELD TERMINATOR		H83519/2-8	ML-S-83519	EA	10
	1	1			SPLICE	06090	D-436-53		EA	9
	1000				CABLE, SHIELDED		M27500-22SP2523	ML-C-27500	N	8
2		500	1000		CABLE, SHIELDED		M27500-20SP2523	ML-C-27500	N	7
	500				CABLE, SHIELDED		M27500-22SP1523	ML-C-27500	N	6
300	2000	572	500		WIRE, 22 AWG		M22739/43-22-9	ML-W-22739	N	5
72	18	1018			WIRE, 20 AWG		M22739/43-20-9	ML-W-22739	N	4
	500	500			WIRE, 12 AWG		M22739/43-12-9	ML-W-22739	N	3
	1				CONNECTOR		HS3122E22-555		EA	2
		1	1		CONNECTOR		HS3122E22-55P		EA	1
					LOOSE WIRES		LEX-13325-4			-
					J1257 HARNESS		LEX-13325-3			-
					J1256 HARNESS		LEX-13325-2			-
					MD406J HARNESS		LEX-13325-1			-

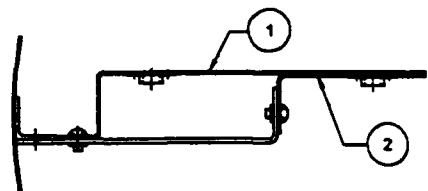
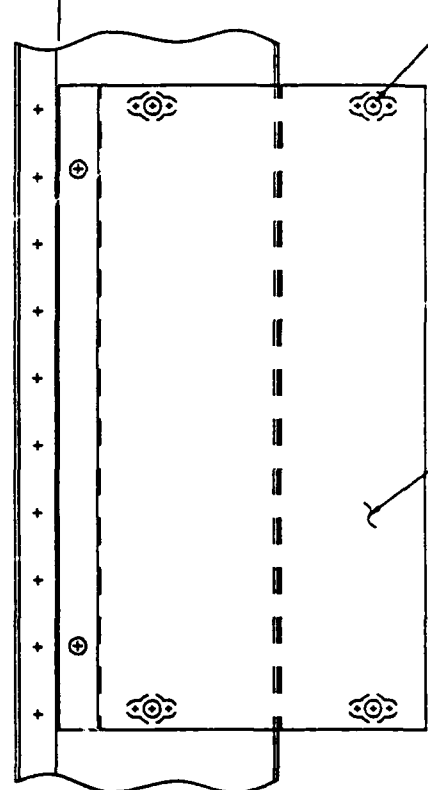
U/M	ZONE	SYN	NOMENCLATURE	QTY	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	PUB	HL
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PARTS LIST										
SOPSA			CONTRACT NO.				SOPSA			
LEAD LEX			DAA807-92-Z-8506				SERV-AIR, INC.			
							A SUBSIDIARY OF E-SYSTEMS INC. LEAD LEX, KY.			
							MSOGS HARNESS			
							LEX-13325			
							D 7S976			
							NONE			
							1 = 1			

NOTES:

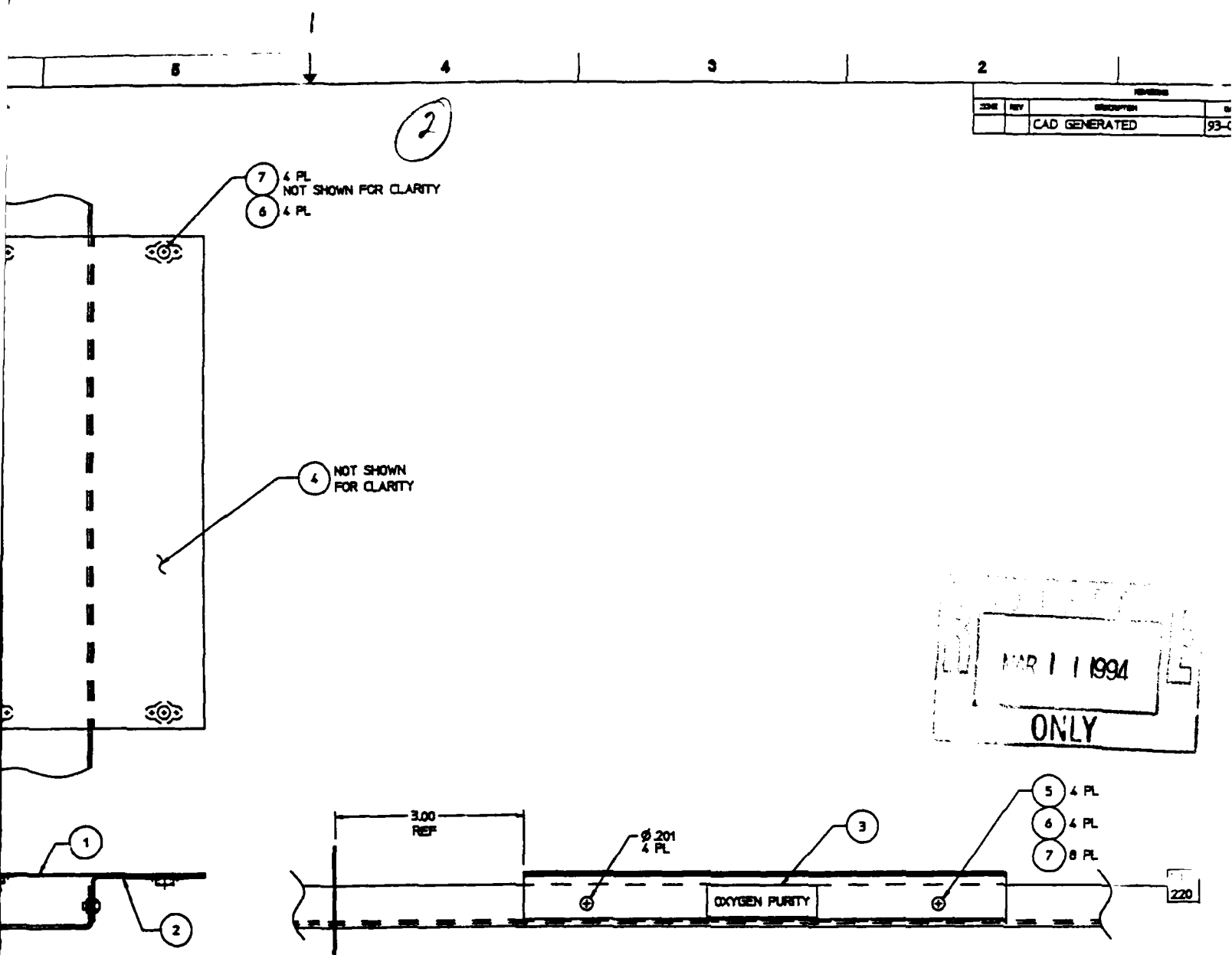
1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
5. IDENTIFICATION CODE OF FASTENERS PER NAS 523
6. INSTALLATION OF FASTENERS PER MIL-STD-1515

SIGN REMOVED FOR CLARITY

LBL
495



ZONE	REV	DESCRIPTION	DATE
		CAD GENERATED	93-0



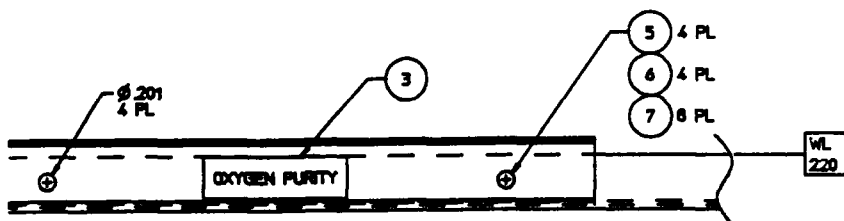
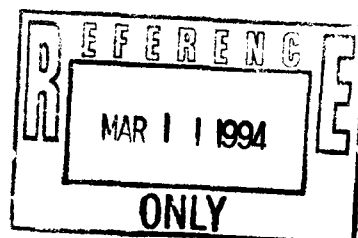
VIEW LOOKING OUTBOARD
LEFT HAND SIDE

12	WASHER		MS15795-008		E
8	SCREW		MS1958-63		E
4	NUT		MS21042L3		E
1	OXYGEN PURITY		708-1019-80		E
1	DECAL		LEX-13333-1		E
1	SUPPORT ASSY		LEX-13332		E
1	SUPPORT ASSY		LEX-13331		E

QUANTITY REQUIRED PER DASH NO.	SYN	NOMENCLATURE	CODE (BIT)	IDENTIFYING NO.	MATERIAL/SPECIFICATION
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR MILLIMETERS		CONTRACT NO. DAAB07-92-Z-8506	SERV-AIR, INC. A SUBSIDIARY OF E-SYSTEMS, INC. PURITY SENS INSTALLATIO
		FINISH		SLH 93-04-13 LH 93-12-07 VLD 93-12-10	
		LEX-13321	UH-600		
		APPLICATION			

D 7S976 **LEX-133**

ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-04-13	

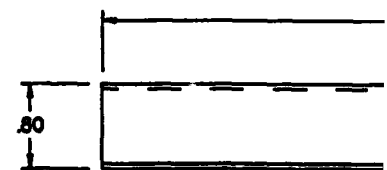
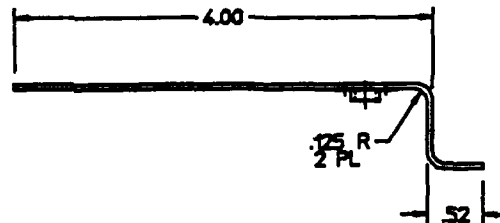


12	WASHER	HS15795-808	EA	7
8	SCREW	HS1958-43	EA	6
4	NUT	HS21042L3	EA	5
1	OXYGEN PURITY	708-1018-80	EA	4
1	DECAL	LEX-13333-1	EA	3
1	SUPPORT ASSY	LEX-13332	EA	2
1	SUPPORT ASSY	LEX-13331	EA	1


SYN	NOMENCLATURE	QTY REQ	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	PSB NO.
PARTS LIST							
USING DIFFERENT SPECIFIED DIMENSIONS ARE IN CONFORMANCE WITH ** ** ** **		CONTRACT NO. DAAB07-92-Z-8506		SERV-AIR, INC. SOPRA A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.			
PMSH 		SLH 93-04-13 L.H. 93-12-07 V.L.D. 93-12-10		PURITY SENSOR INSTALLATION			
		D 7S976		LEX-13330			
		V1		1 1			

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-
- Technical drawing of a rectangular plate. The width is dimensioned as 25. A vertical centerline is shown. A feature labeled '1' is located on the left edge. A circular feature with a cross inside is located on the centerline near the bottom edge.



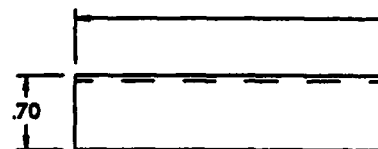
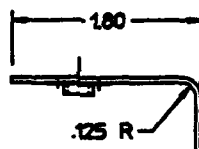
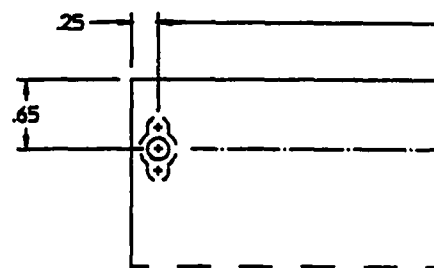
4		RIVET
2		NUTPLATE
1		SUPPORT

BASIC CODE		NAS 529 FASTENER CODE	QUANTITY REQUIRED PER DASH NO.		SYM	NOMENCLATURE
88 - H320-026AD		INSTALL RIVETS PER H329S				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCE ON FINISHES
BASIC CODE	DASH NO. FOR DIA N = NPS HEAD N/S P = NPS HEAD P/S					X=.1 . NA .03 . P 3000 .010
C = COUNTDOWN BOTH SIDES CRK 100° AND GRIND FLUSH	DASH NO. FOR LENGTH					FINISH: 
			LEX-15930	UH-600		
			APPLICATION			

9

C	7S976	LEX-13331
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**6. CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A
EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE I, 2 COATS**



4		RIVET
2		NUTPLATE
1		SUPPORT

[illegible]

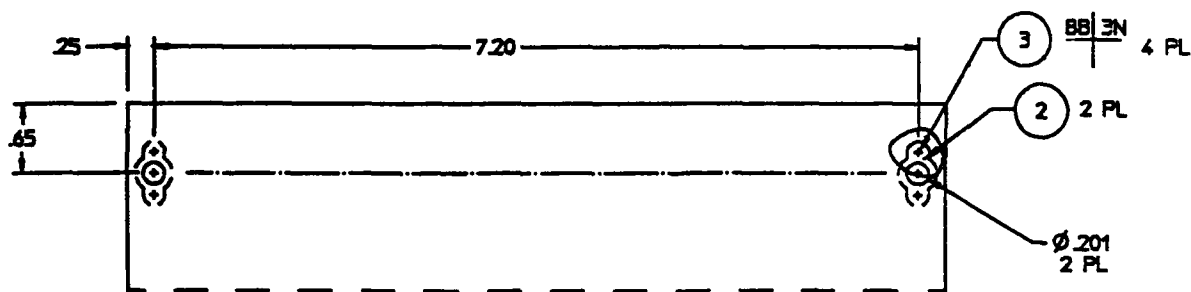
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2

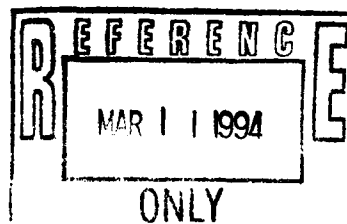
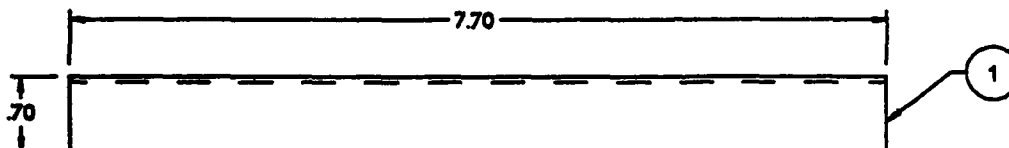
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-04-13	

20-



-7-



E IDENT

ACT NO PER DASH NO

DAAB

J.H.

J.M.

/L.D.

UH-600

2

ATION

2

1

QTY	SYMBOL	DESCRIPTION	CODE	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	FRD NO.
4		RIVET		MS24026AD3		EA		3
2		NUTPLATE		MS21075L3		EA		2
1		SUPPORT		LEX-13332-1	.050x2.60x7.9 2024-T3 AL ALY QQ-A-250/5	EA		1

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES-DECIMALS AND
FRACTIONS

.1
 .03
 .010

FINISH



CONTRACT NO.

DAAB07-92-Z-8506

SLH 93-04-13

LH 93-12-07

V.L.D. 93-12-10



SERV-AIR, INC.

SOPSA

A SUBSIDIARY OF E-SYSTEMS INC. LEAD LEX, KY.

SUPPORT ASSEMBLY

C

7S976

LEX-13332

1/1

1 of 1

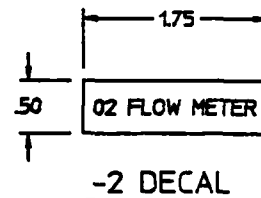
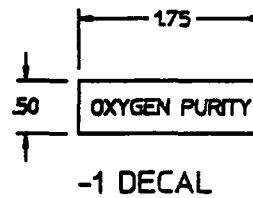
A

①

3

C

1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
5. DECAL HAS DOUBLE FACED ADHESIVE BACKING PER MIL-P-19834
TYPE 1 STYLE 3 QQ-A-250/1



B

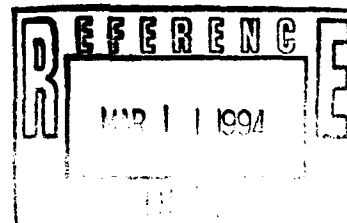
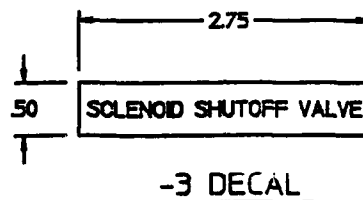
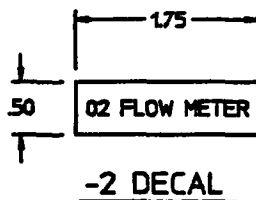
A

			X				DECAL
				X			DECAL
					X		DECAL
			-3	-2	-1	SYM	NONE
QUANTITY REQUIRED PER DASH NO.							UNLESS OTHERWISE SPECIFIED ARE IN DEC- IMETERS X .1 • NA 3000 .03 30000 .01 FINISH:
LEX-13390			UH-600				
MILITARY			MARINE				
APPLICATION							

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REVISED				
DATE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-04-16	




					DECAL		LEX-13333-3	.012x.50x2.75 PHOTSENSITIZED 2024-T3 AL ALY QQ-A-250/5			-
					DECAL		LEX-13333-2	.012x.50x1.75 PHOTSENSITIZED 2024-T3 AL ALY QQ-A-250/5			-
					DECAL		LEX-13333-1	.012x.50x1.75 PHOTSENSITIZED 2024-T3 AL ALY QQ-A-250/5			-
TURE	-3	-2	-1	SYM	NOMENCLATURE	QTY REQ	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	FRQ NO.
RED FOR DASH IN.				PARTS LIST							
EXCISED PARTS OF PARTS • 1" 											

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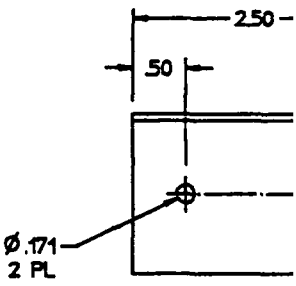
NOTES:


1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6.  CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A
EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE I, 2 COATS

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		ANGLE SUP	
		SYM	NOMENC
QUANTITY REQUIRED PER DASH NO.			
		UNLESS OTHERWISE SPECIFIED ARE IN INCHES- DECIMALS X.1 X.100 .03 X.1000 .010 FINISH: <div style="text-align: center;">  6 </div>	
LEX-13337	UH-600	APPLICATION	
SEE COMMENTS			

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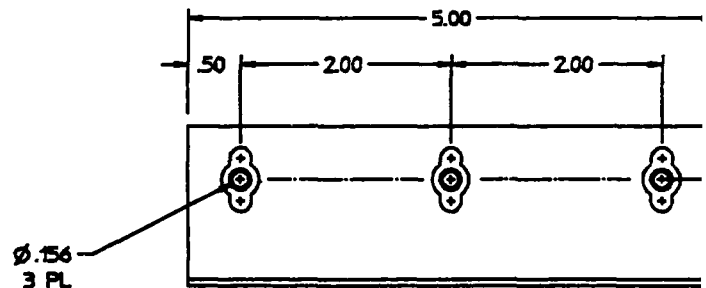


NOTES:


1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6. IDENTIFICATION CODE OF FASTENERS PER NAS 523
7. INSTALLATION OF FASTENERS PER MIL-STD-1515
8.  CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A
EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE I, 2 COATS

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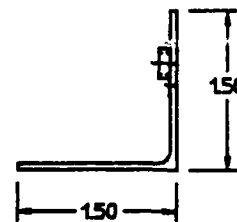
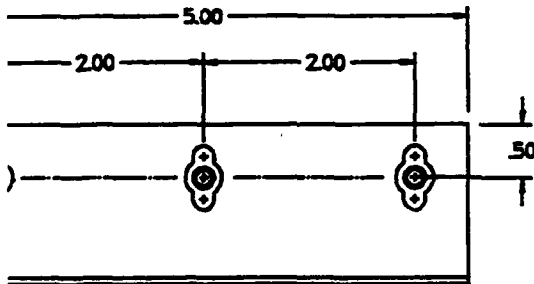
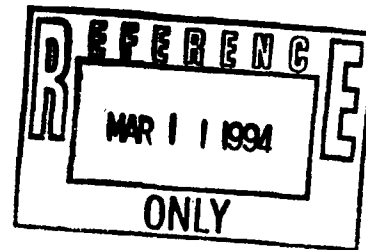
BASIC CODE		NAS 523 FASTENER CODE		QUANTITY REQUIRED PER DASH NO.		BRACKET	
BASIC CODE		INSTALL RIVETS PER MIL-STD-1515				SYM	NOMENCLATURE
BJ - H320470AD BB - H320436AD		BASIC CODE				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCES FRACTIONS DECIMALS	
		DASH NO. FOR DIA N - HPS HEAD N/S P - HPS HEAD P/S				x .1 NA .03 NA .010	
		DASH NO. FOR LENGTH				FINISH	
		C - COUNTERSINK BOTH SIDES CSK 100° AND GRIND FLUSH					
				LEX-13345 UH-600			
				APPLICATION			

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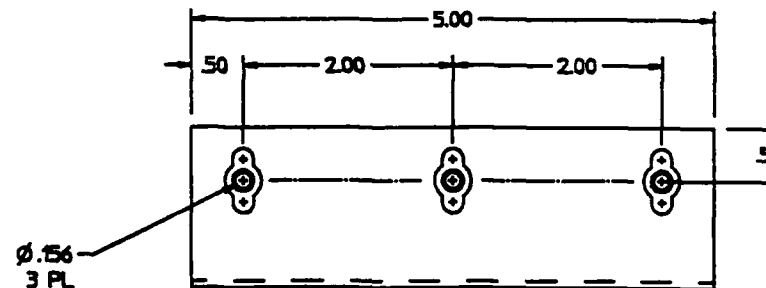
REVISIONS				
DATE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-04-16	



CODE		BRACKET		LEX-13335-1		MS14284D293 x 5.2 LONG			
		SYN		NOMENCLATURE		MATERIAL/SPECIFICATION		U/M ZONE FNO NO.	
REQUIRED PER DASH NO.		UNLESS OTHERWISE SPECIFIED		CONTRACT NO.		SERV-AIR, INC.		SOPSA	
		DIMENSIONS ARE IN INCHES-TOLERANCES ON DECIMALS		DAA807-92-Z-8506		A SUBSIDIARY OF E-SYSTEMS INC. LEAD LEX, KY.			
CONTRACT		FINISH		PARTS LIST		BRACKET			
Dr		• NA		SLH 92-08-06					
SLH		x .1		LM 93-12-07					
LM		.000 .03		VLD 93-12-10					
VLD		.000 .010							
		△							
45 UH-600						C 7S976		LEX-13335	
APPLICATION						V1		1 1	

NOTES:

1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6. IDENTIFICATION CODE OF FASTENERS PER NAS 523
7. INSTALLATION OF FASTENERS PER MIL-STD-1515
8.  CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A
EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE I, 2 COATS



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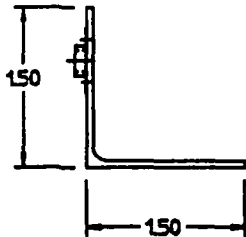
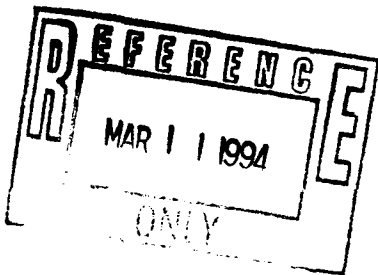
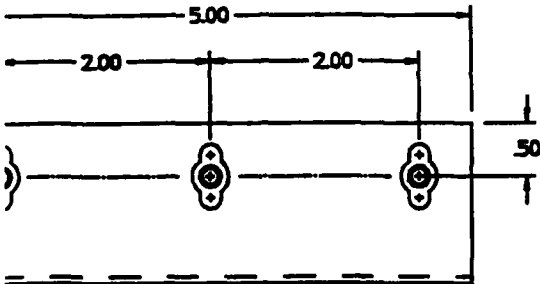
BASIC CODE	NAS 523 FASTENER CODE
BJ - H220470AD BB - H220426AD	INSTALL RIVETS PER H21515
BASIC CODE	DASH NO. FOR DIA N - NPS HEAD N/S F - NPS HEAD F/S
C - COUNTERSINK BOTH SIDES CSK 100° AND GRIND FLUSH	DASH NO. FOR LENGTH

QUANTITY REQUIRED PER DASH NO.		BRACKET
SYN	NOMENCLATURE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCES FRACTIONS DECIMALS ANGLES		
• NA	• .1 • .03 • .010	
FINISH:		
LEX-13343 UH-600		
APPLICATION		

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REVISION				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-04-16	

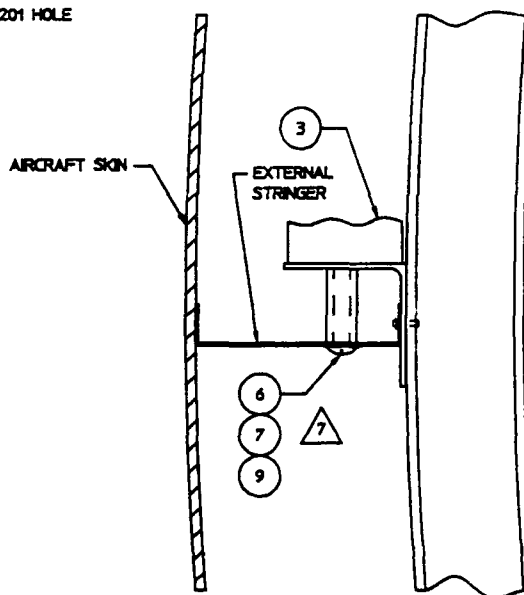
.TS



CODE DE		BRACKET		LEX-13336-1		MS14284D293 x 5.2		2024-T85H AL ALY 00-A-200/3		U/M		ZONE		FRO NO	
CONTRACT		SYN		NOMENCLATURE		CODE DES		IDENTIFYING NO.		MATERIAL/SPECIFICATION		U/M		ZONE	
DAV		UNLESS OTHERWISE SPECIFIED		CONTRACT NO.		DAAB07-92-Z-8506		SERV-AIR, INC.		SOP3A		A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.		BRACKET	
SLH		.1		92-08-06		92-08-06		7S976		LEX-13336		1		1	
LM		.03		93-12-07		93-12-07		1		1		1		1	
VLD		.010		93-12-10		93-12-10		1		1		1		1	
EX-13343		UH-600		APPLICATION		2		3		2		1		1	

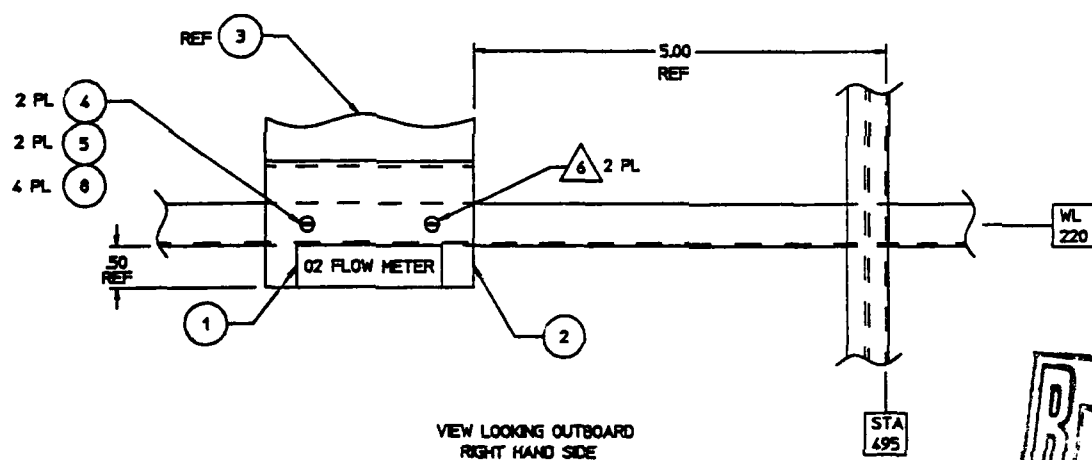
NOTES:

1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
5. INSTALLATION CODE OF FASTENERS PER MIL-STD-1515
6. DRILL (2) ϕ .171 HOLES IN EXISTING STRINGER AFTER LEX-13334 (FIND NO. 2) IS POSITIONED
7. USE FIND NO. 3 AS TEMPLATE TO LOCATE ϕ .201 HOLE THROUGH EXISTING STRINGER



2 PL 4
2 PL 5
4 PL 8

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REF



1	WASHER		AN960KD10L	
4	WASHER		MS5795-007	
1	SPACER		NAS43003-64	
1	SCREW		MS51958-49	
2	SCREW		MS51957-43	
2	NUT		MS21042-08	
1	FLOW METER	8C816	5860E	
1	ANGLE SUPPORT		LEX-13334	
1	DECAL		LEX-13333-2	

QUANTITY REQUIRED FOR DASH NO.		SYM	NOMENCLATURE	CODE DESI	IDENTIFYING NO.	MATERIAL SPECIFICATION
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCES ON FRACTIONS DECIMALS MILLIMETERS	CONTRACT NO. DAA807-92-Z-8504		SERV-AIR A SUBSIDIARY OF FLOW INSTA
		• NA	X .1 Z .03 Y .010	• P		
		FRESH			• SLH 93-05-18 • LM 93-12-07 • VLD 93-12-10	D 7S976 V1
LDC-133H		UH-400				
APPLICATION						

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NOTES:

1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12

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BASIC CODE	NAS
BJ-4530470AD	BETA
	BASH
	—
	C-COUNTY
	BOTH
	CSK 11
	GRND

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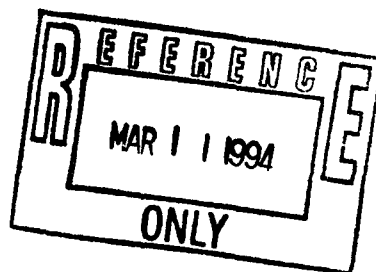
REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-07-21	

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B

1	MSOGS UNIT	99251	3261093		EA	7
53	RVET		MS2047DAD		EA	6
10	WASHER		MS51958-809		EA	5
10	BOLT		AN4C7A		EA	4
1	MSOGS ANGLE, FWD		LEX-13342		EA	3
1	MSOGS ANGLE, AFT		LEX-13341		EA	2
1	MSOGS PALLET ASSY		LEX-13339		EA	1
X	MSOGS PALLET INSTL		LEX-13338			

AIR,
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PARTS LIST

DAAB07-92-Z-B506

SERV-AIR, INC.

S.O.F.S.A.

A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.

MSOGS UNIT
AND PALLET
INSTALLATION

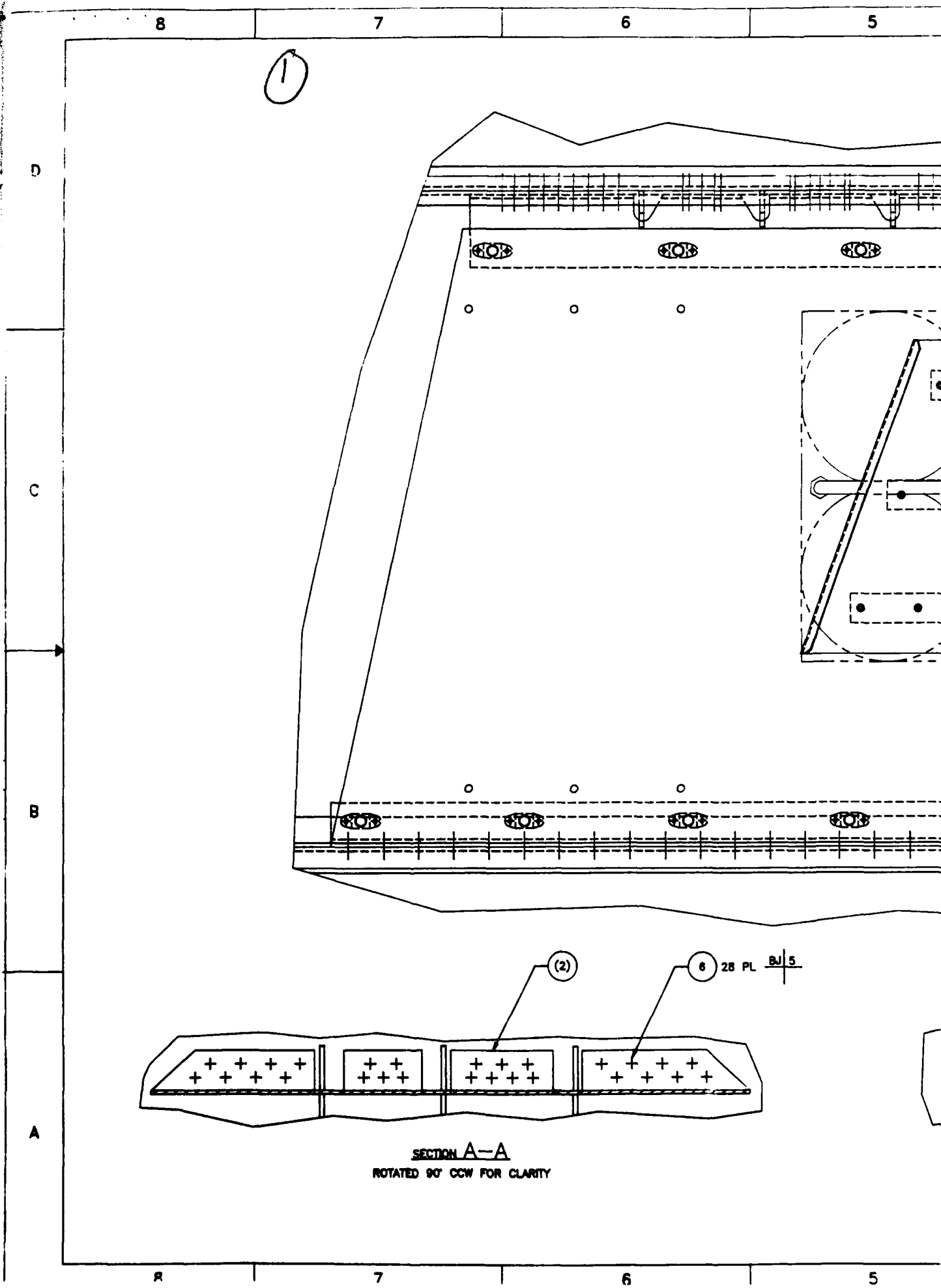
D 7S976

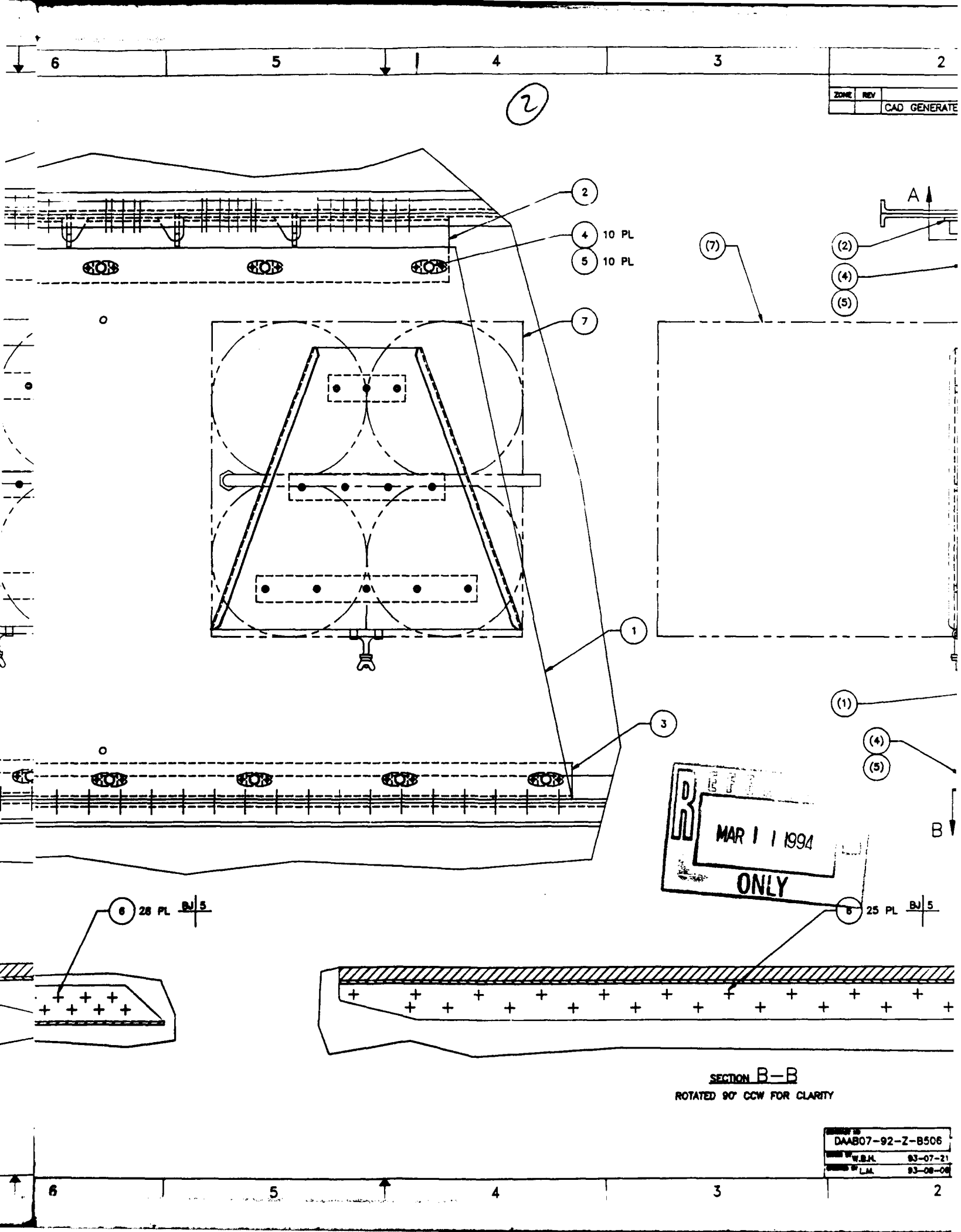
LEX-13338

1/2

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ZONE	REV	CAD GENERATE

DAAB07-92-Z-B506
W.B.H. 93-07-21
L.M. 93-08-06

REVISIONS			DATE	APPROVED
ZONE	REV	DESCRIPTION		
		CAD GENERATED	93-07-21	

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4 10 PL

5 10 PL

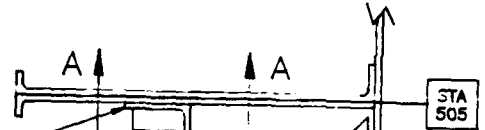
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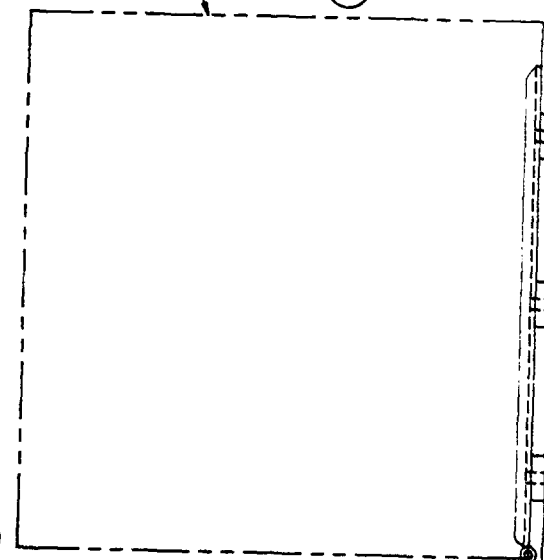


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REFERENCE
MAR 11 1994
ONLY

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WL 200

25 PL BU 5

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SECTION B-B
ROTATED 90° CCW FOR CLARITY

DAAB07-92-Z-B508	75976	LEX-13338
W.S.M. 93-07-21	1/2	2 of 2
L.M. 93-08-08		

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NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12

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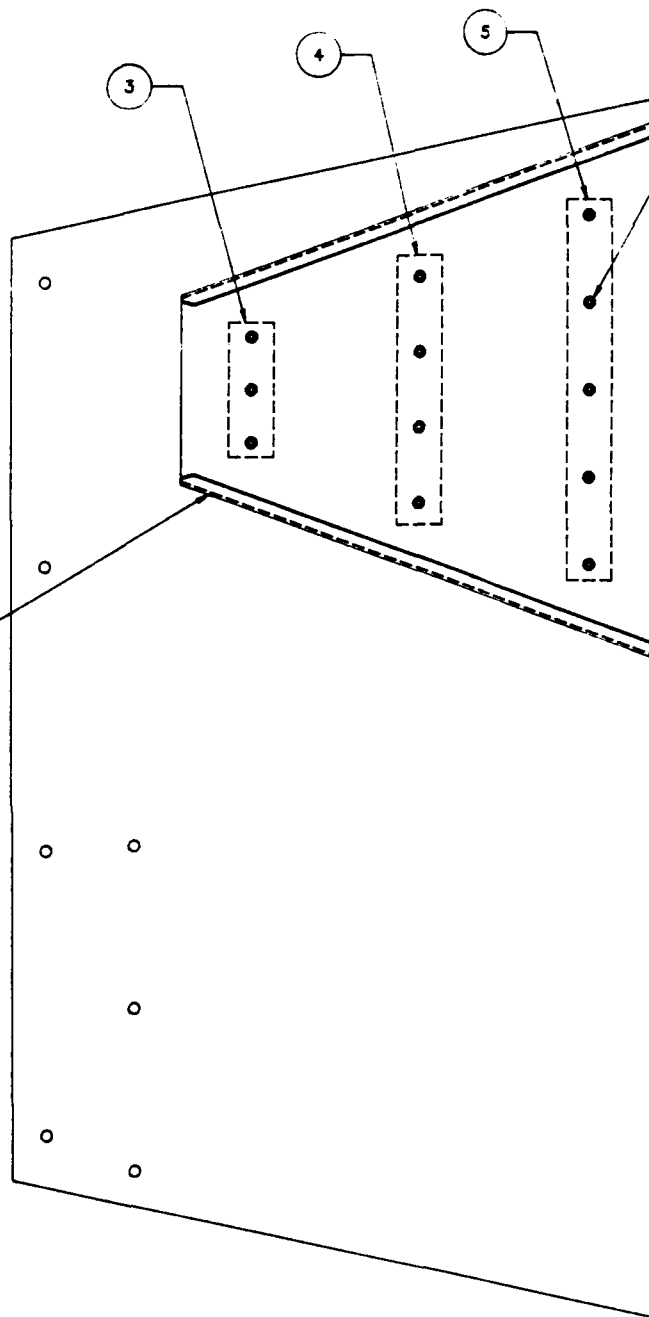
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ZONE	REV
	10

6 12 PL

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12	SCREW		NASS
1	BAR		LEX-
1	BAR		LEX-
1	BAR		LEX-
1	MOUNTING BRACKET		LEX-
1	PALLET		LEX-
	MSOGS PALLET ASSY		LEX-

QUANTITY REQUIRED PER DASH NO				SYM	HOMOLOGATION	CODE IDENT	B
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-PARENTHESES ON DRAWING FINISHES 2 IN. 2 1/2 1 1/2 1 1/4 1 1/8 1 1/2 2 1/2 2 1/4 2 1/8 2 1/4 2 1/8 2 1/4				PART NO. DAAB07-92-2			
				DESIGNED BY W.B.H.			
				CHECKED BY L.M.			
				DATE 1992			
LEX-13338 UH-600 NEW AIRCRAFT USED ON				APPLICATION			

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REVISIONS					
ZONE	REV	DESCRIPTION		DATE	APPROVED
		CAD GENERATED		93-07-20	

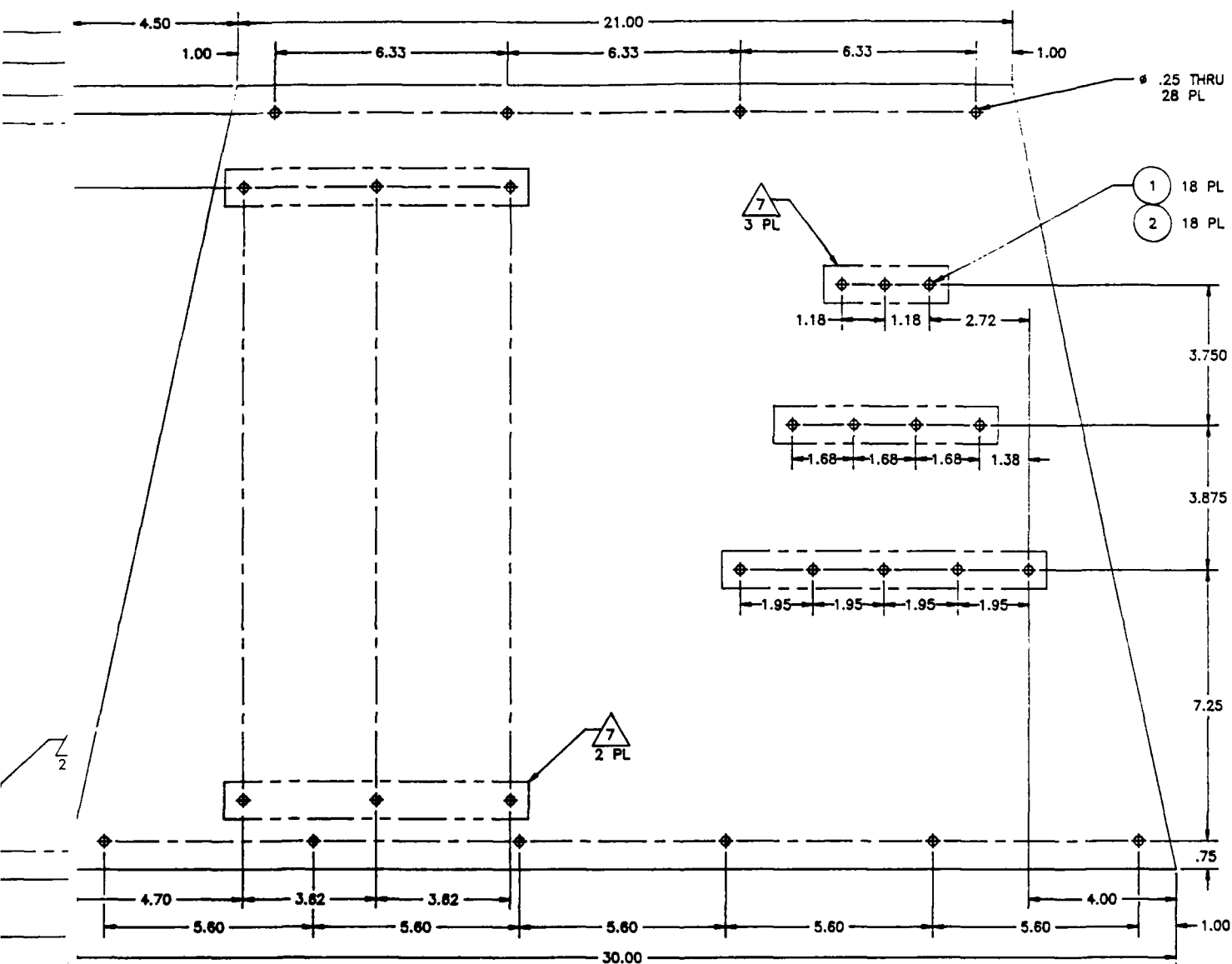
3

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REFERENCE
MAR 11 1994
ONLY

12	SCREW	NAS517-3-7	EA	6
1	BAR	LEX-13343-3	EA	5
1	BAR	LEX-13343-2	EA	4
1	BAR	LEX-13343-1	EA	3
1	MOUNTING BRACKET	LEX-13344	EA	2
1	PALLET	LEX-13340	EA	1
<input checked="" type="checkbox"/>	MSOGS PALLET ASSY	LEX-13339		

PARTS LIST		SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LBAO LEX, KY.	
DAAB07-92-Z-B508	W.B.M. 93-07-20 L.M. 93-08-08	MSOGS PALLET ASSY	
D 7S976		LEX-13339	
1/2		1 of 1	

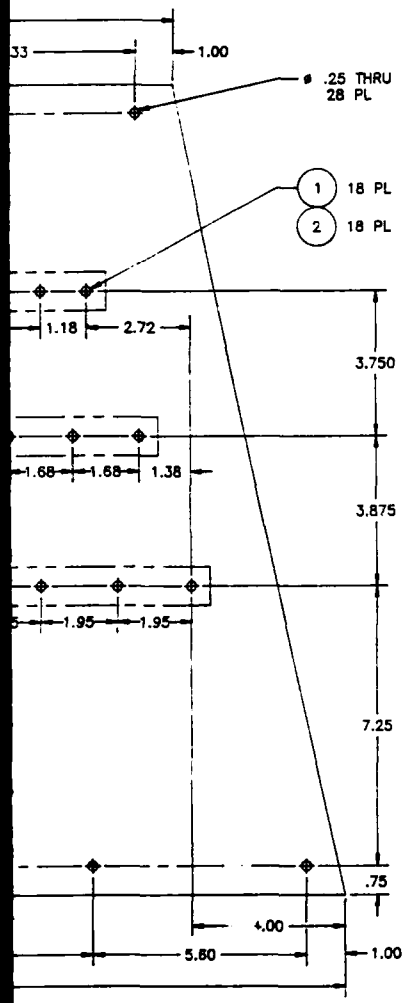


AR	ADHESIVE	33564	EA934
18	INSERT		NAS1833-3-50
	PALLET		LEX-11340
SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.
QUANTITY REQUIRED PER DASH NO			
UNLESS OTHERWISE SPECIFIED			
DAAB07-92-Z-B506			
W.B.M. 93-06-28			
L.M. 93-06-06			
LEX-11340			
APPLICATION			

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REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		CAD GENERATED	93-06-28

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REFERENCE
MAR 11 1994
ONLY

AR	ADHESIVE	33584	EA834		EA	2
18	INSERT		NAS1833-3-500		EA	1
X	PALLET		LEX-11340	.50x21.25x30.25 HONEYCOMB P/N 810-11233-500		

PER DASH NO	PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS TOLERANCES: .125, .063, .031, .016, .008, .004, .002, .001	DRAWING NO. DAAB07-92-Z-B506 DESIGNED BY W.B.H. 93-06-28 CHECKED BY L.M. 93-06-06 DATE	SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LBAO LEX, KY. Pallet D7S976 LEX-13340 1/2

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NOTES:

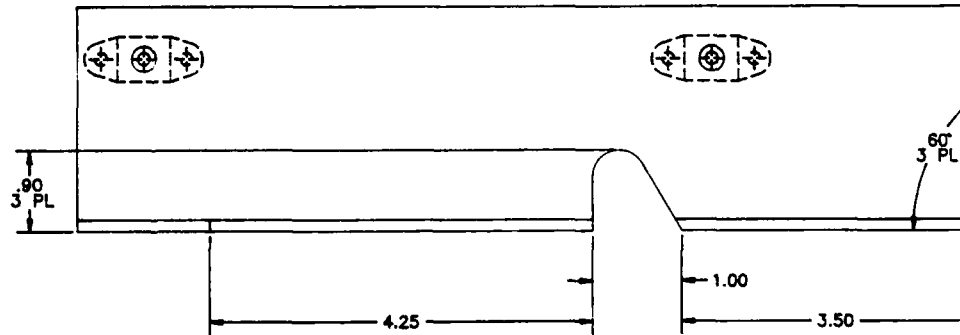
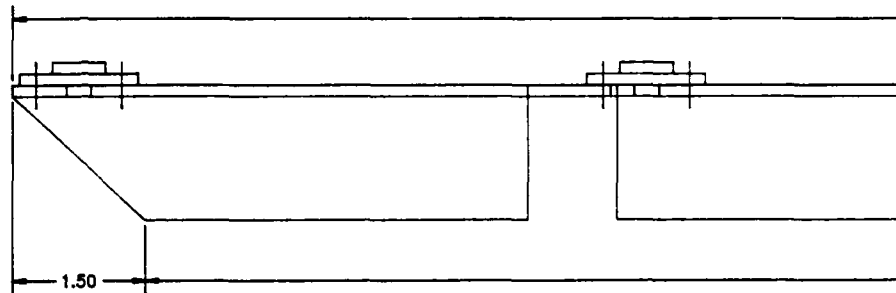
1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6. CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE 1 OR TT-P-1757, 2 COATS
7. LOCATE ITEM 1 NUTPLATES BY USING LEX-13340 PALLET AS TEMPLATE

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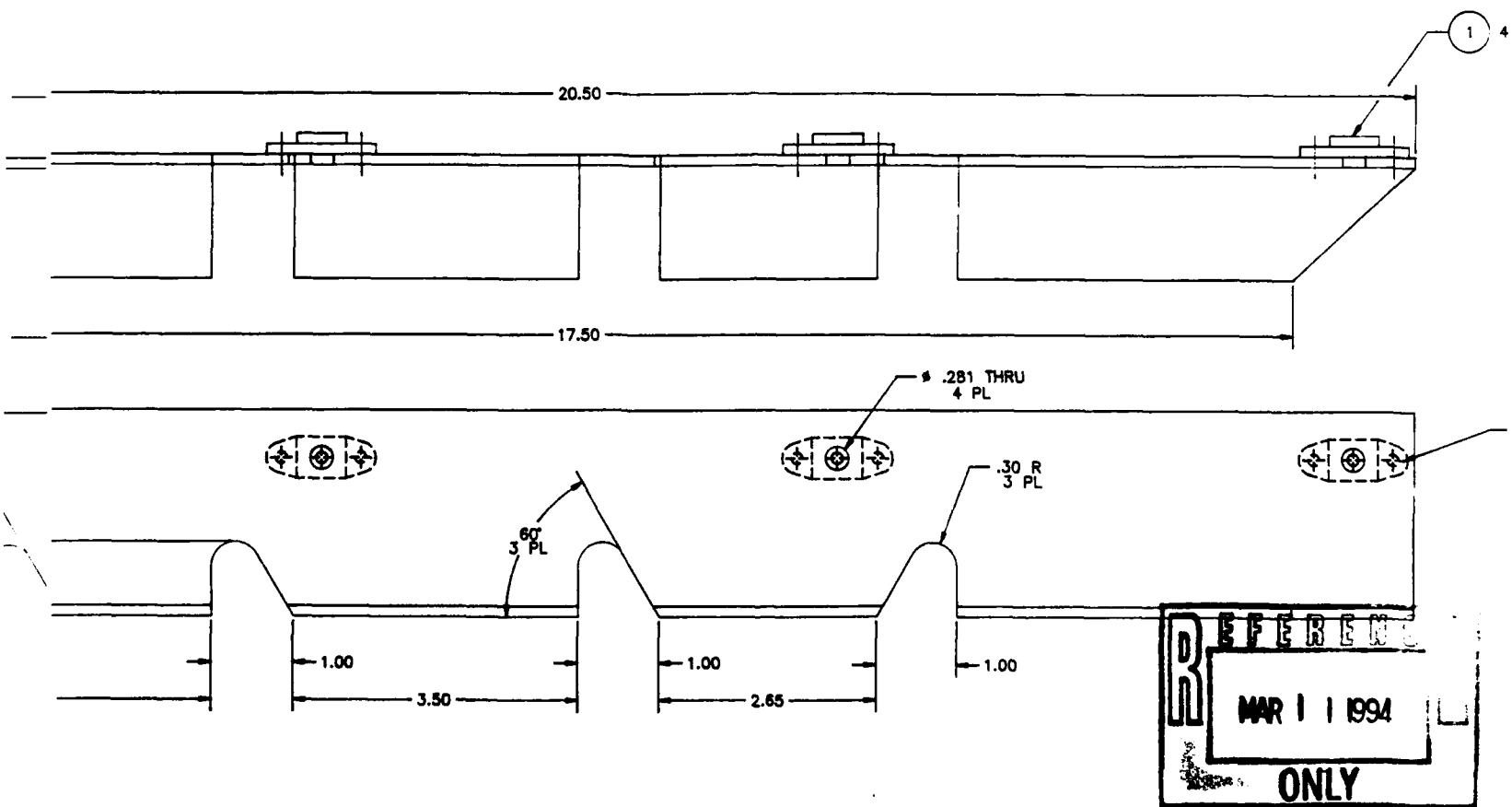
A



BASIC CODE	NAS 921
BB-MS20428AD	INSTALL
	BASIC (
	C-COUNTER
	BOTH SIDS
	CSK 100'
	GRND FL

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ZONE	REV
	CAD GENERA



REFERENCE

MAR 11 1994

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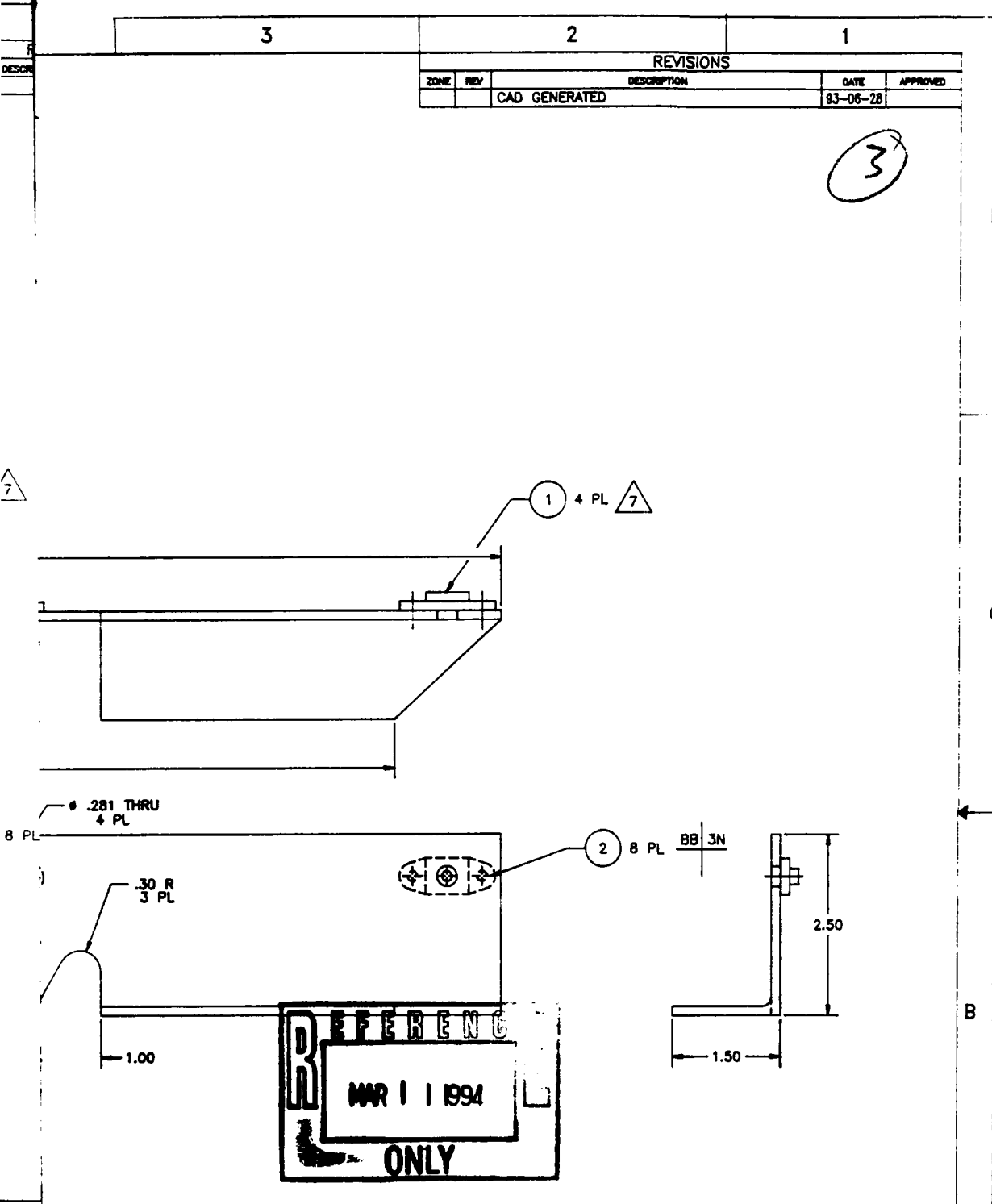
8	RIVET	MS20426AD3
4	NUTPLATE	MS21076L4
X	MSOGS ANGLE, AFT	LEX-13341

QUANTITY REQUIRED PER DASH NO		SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.
					PA

BASIC CODE 80-MS20426AD	NAS 823 FASTENER CODE INSTALL INSTEAD PER MS1816		FINISH: <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">6</div>	UNLESS OTHERWISE SPECIFIED FINISHES ARE TO BE USED-EXCEPT WHERE SHOWN OTHERWISE	
	BASIC CODE	DASH NO FOR DIA		DAAB07-92-Z-B506 W.B.H. 93-08-29 L.M. 93-08-06	
	C-COUNTERSINK BOTH SIDES CHK 100° AND GRIND FLUSH				
	DASH NO FOR LENGTH				

DIMEN CX
 PER M
 DASH N
 H-MFG
 F-MFG
 DASH N
 LENGTH

APPLICATION



8	RIVET		MS20426AD3		EA		2
4	NUTPLATE		MS21076L4		EA		1
X	MSOGS ANGLE, AFT		LEX-13341	60-14935 X 20.70 LONG 7075-T6511 AL ALY QQ-A-200/11			
	QTY	REMARKS	CODE IDENT	REVISIONS NO.	MATERIAL/SPECIFICATION	U/M	ZONE

QUANTITY PER DASH NO		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS FINISH:		DAAB07-92-Z-8506 W.B.H. 93-06-29 L.M. 93-06-06 MSOGS ANGLE, AFT D 7S976 LEX-13341	
S9 U/I-855 PPLICATION		1/1	

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NOTES:

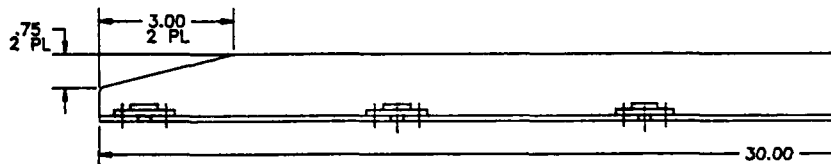
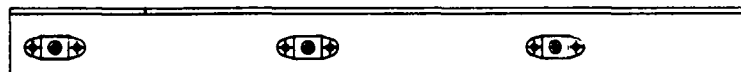
- 1: INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6.  CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE 1 OR TT-P-1757, 2 COATS
7.  TO LOCATE ITEM 1 NUTPLATES USE LEX-13340 PALLET AS TEMPLATE

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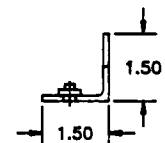
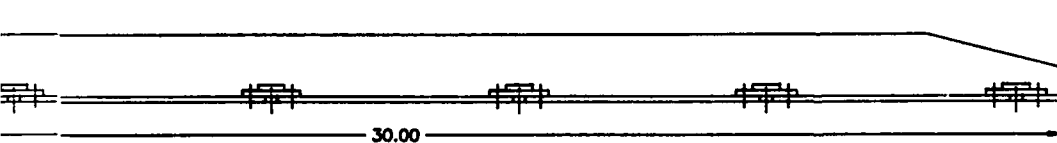
BASIC CODE	NAS 5
88-MS20428AD	INSTAL
	BASIC
	C-COUNTS BOTH S CSK 10 GRND 1

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SYN		NOMENCLATURE		CODE IDENT	IDENTIFYING NO.	LOG
QUANTITY REQUIRED PER DASH NO					PARTS LIST	

[illegible]REF
MA

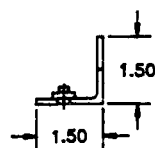
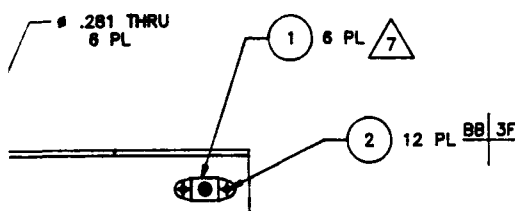
SERV
A SUBSIDIARY

D 7S976

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-06-29	

3



REFERENCE
MAR 1 1994
ONLY

12		RIVET		MS20426AD3		EA		2
6		NUTPLATE		MS21076L4		EA		1
X		MSOGS ANGLE		LEX-13342	AND10133-1403 X 30.2 LONG 7075-T6S11 AL ALY QQ-A-200/11			
	QTY	DESCRIPTION	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	QTY

PARTS LIST

REQUIRED PER DASH NO 3 X 30.2 ALY QQ-A-200/11		UNLESS OTHERWISE SPECIFIED FINISH:		DAAB07-92-Z-B506 W.B.H. 93-06-29 L.M. 93-06-08		SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.	
APPLICATION		FINISH:		MSOGS ANGLE, FWD		D 7S976 LEX-13342	
				1/1		1 of 1	

3

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- 1: INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. CHEMICAL CONVERSION COAT PER MIL-C-5541,
CLASS 1A EPOXY POLYAMIDE PRIME PER
MIL-P-23377 TYPE 1 OR TT-P-1757, 2 COATS

	A
-1	8.50
-2	6.00
-3	3.00

X				BAR
	X			BAR
		X		BAR

			-3	-2	-1	SYM	NOMENCLATURE
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QUANTITY REQUIRED PER DASH NO		
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-RAISED OR FRACTIONS DECIMALS ANGLES
		± .001 ± .1 ± 1°
LEX-1339	UH-60Q	FINISH: △ 6
NET WEIGHT	USED ON	
APPLICATION		

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REVISIONS

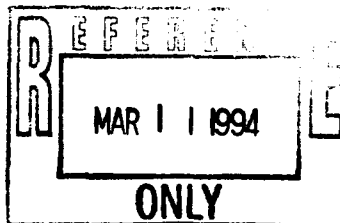
ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-07-20	

2

C

1.00

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 1
 LEX-13343

BAR

LEX-13343-3

.313x1.2x3.2 6061-T6
AL ALY QQ-A-250/11

BAR

LEX-13343-2

.313x1.2x6.2 6061-T6
AL ALY QQ-A-250/11

BAR

LEX-13343-1

.313x1.2x8.7 6061-T6
AL ALY QQ-A-250/11

-C	-1	SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	POP

DASH NO

PARTS LIST

 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES-DECIMALS OR
 FRACTIONS
 FINISHES
 X .1
 .001 .002
 .003 .004

CONTRACT NO.

DAAB07-92-Z-B506



SERV-AIR, INC.

S.O.F.S.A.

A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY.

BY W.B.H. 93-07-20

BY L.M. 93-08-06

BY

BAR

A

FINISH:



C	7S976	LEX-13343
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1/1

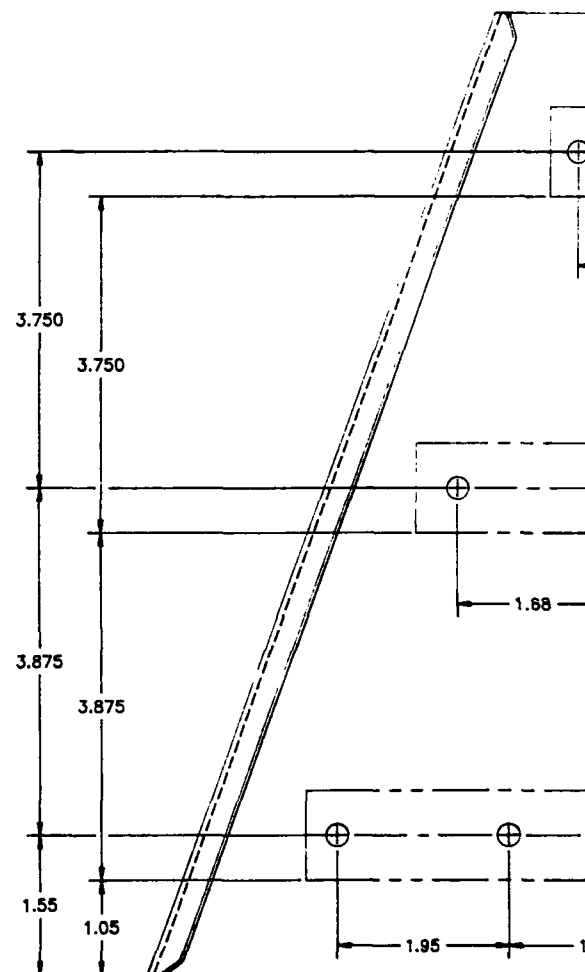
1 of 1

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NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. LOCATE LEX-13343-1, -2, & -3 AS SHOWN
& MATCH DRILL



5

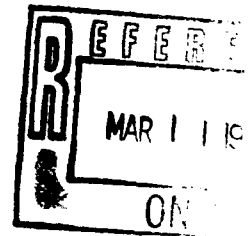
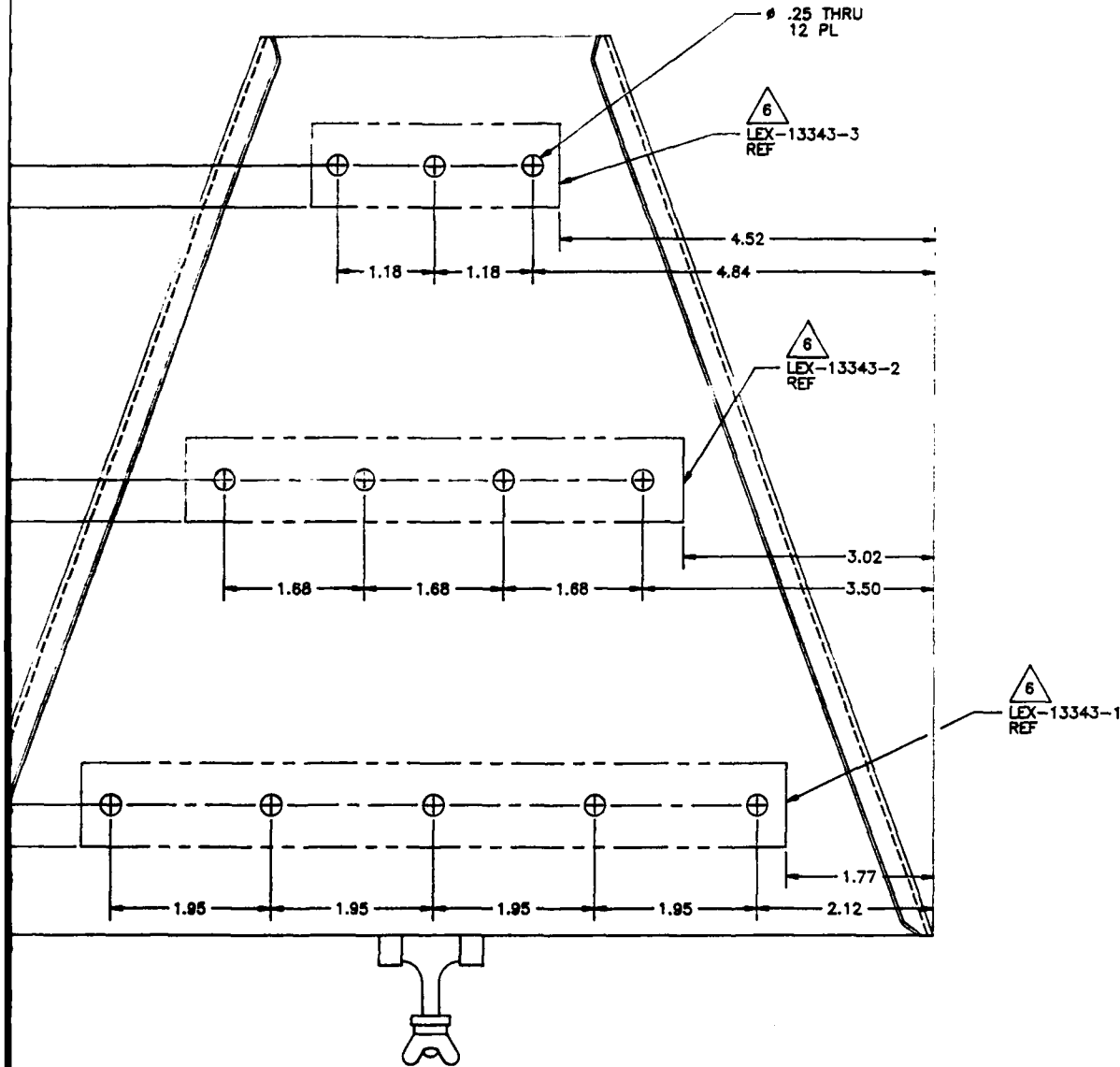
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(2)

ZONE		REV	REVISION
			CAD GENERATED



MSOGS MOUNTING BRACKET		LEX-13344		MS90341
SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	DATE
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-FRACTIONS AND DECIMALS		DAA807-92-Z-B506 W.B.H. 93-07-20 L.M. 93-08-06 DATE		
QUANTITY REQUIRED PER DASH NO. DASH NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		APPLICATION UH-60 UH-60		
DAA807-92-Z-B506		D7S976 1/1		

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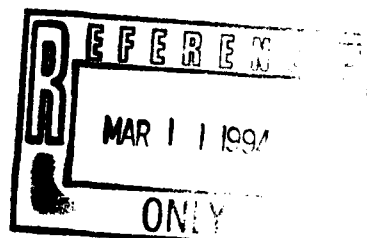
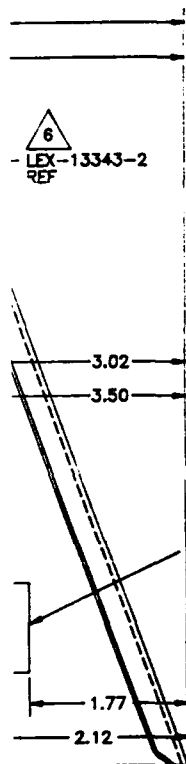
2

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REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		CAD GENERATED	93-07-20
			APPROVED

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.25 THRU
12 PL

-13343-3



<input checked="" type="checkbox"/>		MSOGS MOUNTING BRACKET	LEX-13344	MS90341							
DESCRIPTION	QTY	MANUFACTURING	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE				
PARTS LIST											
SERV-AIR, INC.		DAAB07-92-Z-B506		S.O.F.S.A.							
A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.		MR. W.B.H. 93-07-20		MSOGS MOUNTING BRACKET							
		MR. L.M. 93-08-06									
LEX-13344		D 7S976		LEX-13344							
		1/1		1 of 1							

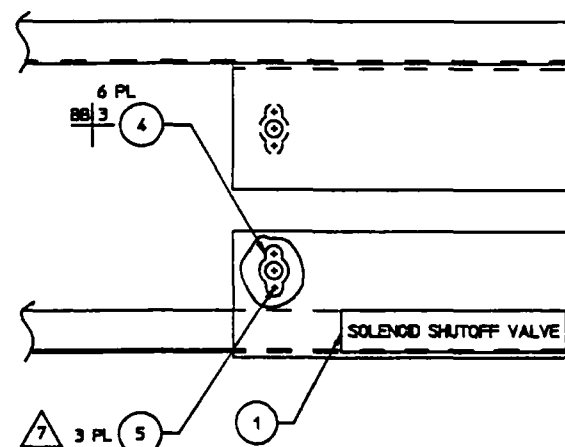
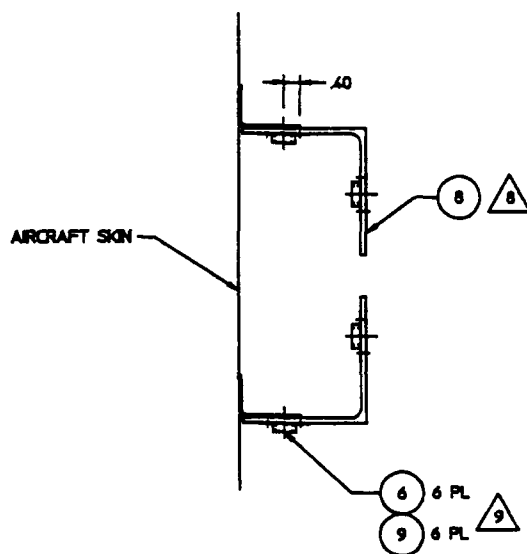
NOTES:

1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
5. IDENTIFICATION CODE OF FASTENERS PER NAS 523
6. INSTALLATION OF FASTENERS PER MIL-STD-1515

7. LOCATE FWD NUMBER 4, 3 PL. AS SHOWN USING SOLENOID SHUTOFF VALVE AS TEMPLATE TO LOCATE HOLES

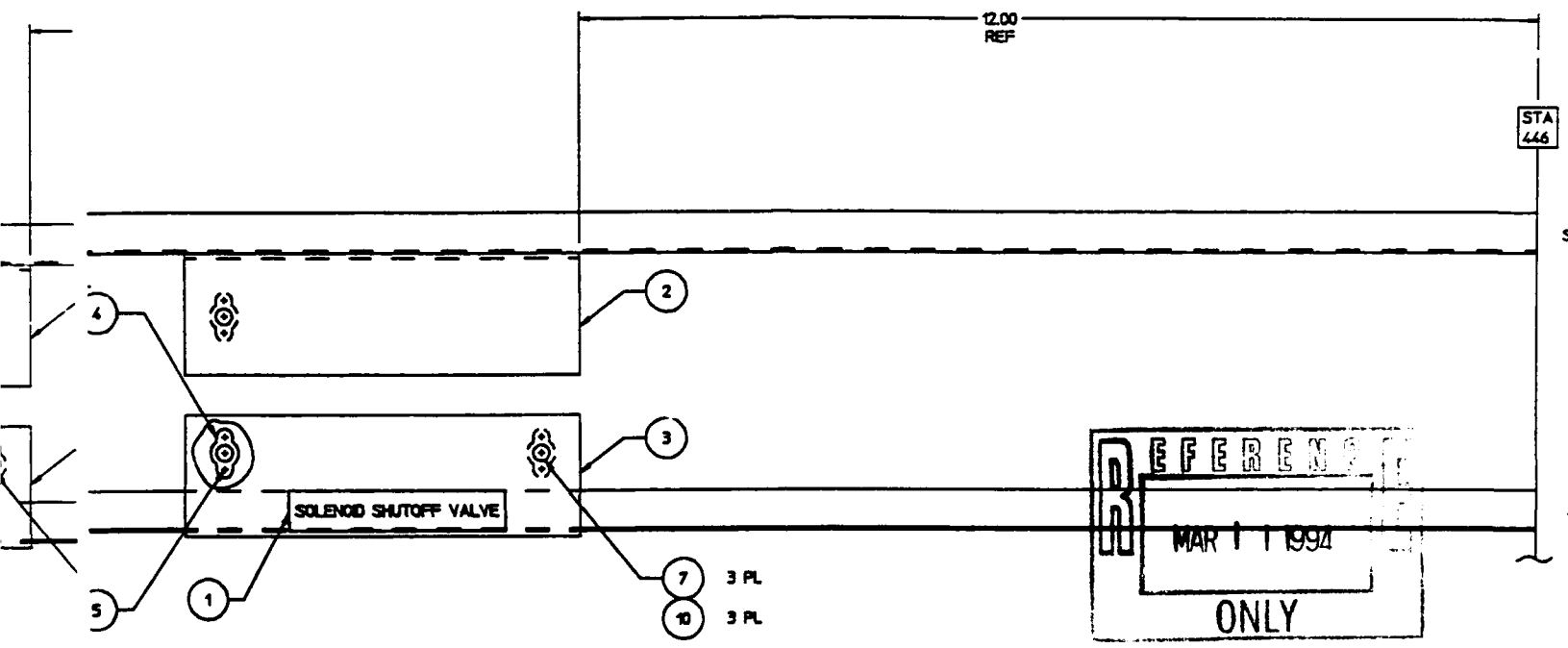
8. SHUT OFF VALVE NOT SHOWN FOR CLARITY

9. USE LEX-13335 AND LEX-13336 BRACKETS FOR TEMPLATES FOR ϕ .156 HOLES



FWD
VIEW LOOKING OUT
LEFT HAND SIDE

(2)



FWD
VIEW LOOKING OUTBOARD
LEFT HAND SIDE

3	WASHER		MS5795-808	
6	WASHER		MS5795-800	
1	SHUTOFF VALVE	96124	520100-2	
3	SCREW		MS51958-44	
6	SCREW		MS51957-30	
4	RIVET		MS20426AD3	
3	NUTPLATE		MS21075L3	
1	BRACKET		LEX-03336	
1	BRACKET		LEX-03335	
1	DECAL		LEX-03333-3	

QUANTITY REQUIRED PER DASH NO.		SYN	NOMENCLATURE	QTY REQ	IDENTIFYING NO.	MATERIAL/SPEC
		PARTS LIST				
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR MILLIMETERS				
		FINISH				
		CONTRACT NO. DAA807-92-Z-8506				
		<div> <div> SERV-AIR A SUBSIDIARY OF </div> <div> SOLENOID VALVE II </div> </div>				
		<div> <div> SLH 93-05-18 LH 93-12-07 VLD 93-12-10 </div> <div> D 7S976 </div> </div>				
		<div> <div> LEX-03321 UH-600 </div> <div> APPLICATION </div> </div>				

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-05-18	

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STRINGER 14

STRINGER 15

REFERENCE
MAR 11 1994
ONLY

3	WASHER		MS5795-808		EA	10
6	WASHER		MS5795-800		EA	9
1	SHUTOFF VALVE	94124	520100-2		EA	8
3	SCREW		MS51958-64		EA	7
6	SCREW		MS51957-30		EA	6
6	RIVET		MS20426A03		EA	5
3	NUTPLATE		MS21075L3		EA	4
1	BRACKET		LEX-13336		EA	3
1	BRACKET		LEX-13335		EA	2
1	DECAL		LEX-13333-3		EA	1

SYN	NOMENCLATURE	QTY REQ	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	FIG NO.
PARTS LIST							
UNLESS OTHERWISE SPECIFIED STANDARD AND IS ASSUMED TO BE USED		CONTRACT NO. DAAB07-92-Z-8506		SERV-MAR, INC. 30P3A A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, NY.			
P/N 44		SLH 93-05-18		SOLENOID SHUT OFF VALVE INSTALLATION			
		LM 93-12-07					
		VLD 93-12-10					
UH-600				D 7S976		LEX-13345	
CATION				1/1		1 1	

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NOTES:

1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100

2. INTERPRET ABBREVIATIONS PER MIL-STD-12

△ 3. PICK-UP EXISTING RIVET PATTERN. NUMBER
OF RIVETS MAY VARY AMONG AIRCRAFT

△ 4. RIVET THROUGH ITEM 3 FRAME, ITEM 4 SCREEN,
A/C SKIN AND ITEMS 6-7 SUPPORTS RESPECTIVELY

△ 5. RIVET THROUGH EACH ITEM 5 ANGLE AND EXISTING
STRINGER 2 PLACES AND THROUGH EACH ITEM 5
ANGLE AND ITEMS 6-7 2 PLACES

6. AFTER INSTALLATION TOUCH-UP EXTERIOR WITH
CARC PAINT PER MIL-C-46168 CC #34031

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BASIC CODE	NAS 52
ARN=CR3213 BU=MS20470AD	INSTALL
	BASIC
	C-COUNTER BOTH SIDE CSK 100 GRIND FL

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REVISIONS

ZONE	REV	DESCRIPTION
		CAD GENERATED

(2)

REFERENCED
MAR 11 1999
ONLY

28	RIVET		MS20426AD5
56	RIVET	11815	CR3213-5
32	RIVET	11815	CR3213-4
2	WASHER		AN960C8L
2	SCREW		MS51957-57
8	WASHER		MS515795-808
8	SCREW		MS51958-63
1	FRAME		LEX-13353
2	CHANNEL		LEX-13354
2	SUPPORT		LEX-13352-2
2	SUPPORT		LEX-13352-1
8	ANGLE		LEX-13351
1	SCREEN		LEX-13355
1	FRAME		LEX-13356
1	FAN	2W924	PASPT 1624
1	HEAT EXCHANGER	16630	6501-12
	HEAT EXCHANGER INSTALLATION		LEX-13349

SYN	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SP
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QUANTITY REQUIRED PER DASH NO

PARTS LIST

BASIC CODE		NAS 923 FASTENER CODE		UNLESS OTHERWISE SPECIFIED QUANTITIES ARE IN POUNDS-DECIMALS (LBS)		DASH NO.		SERV-ALL A SUBSIDIARY OF									
AFN-CR3213 BJ-MS20470AD		INSTALL RIVETS PER MS1815		<table border="1"> <tr> <td>1/2"</td> <td>1/4"</td> <td>3/8"</td> <td>1/2"</td> </tr> <tr> <td>1/2"</td> <td>1/4"</td> <td>3/8"</td> <td>1/2"</td> </tr> </table>		1/2"	1/4"	3/8"	1/2"	1/2"	1/4"	3/8"	1/2"	DAAB07-92-Z-8506			
1/2"	1/4"	3/8"	1/2"														
1/2"	1/4"	3/8"	1/2"														
BASIC CODE		DASH NO FOR DIA N=MS HEAD N/S F=MS HEAD F/S				W.B.H. 93-08-09											
C-COUNTERBANK BOTH SIDES CSK 100° AND GRIND FLUSH		DASH NO FOR LENGTH				L.M. 93-08-18											
				LEX-13351		UH-600											
				APPLICATION													
								D 75976									

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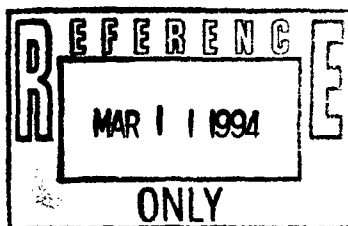
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REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		CAD GENERATED	93-08-09

(3)



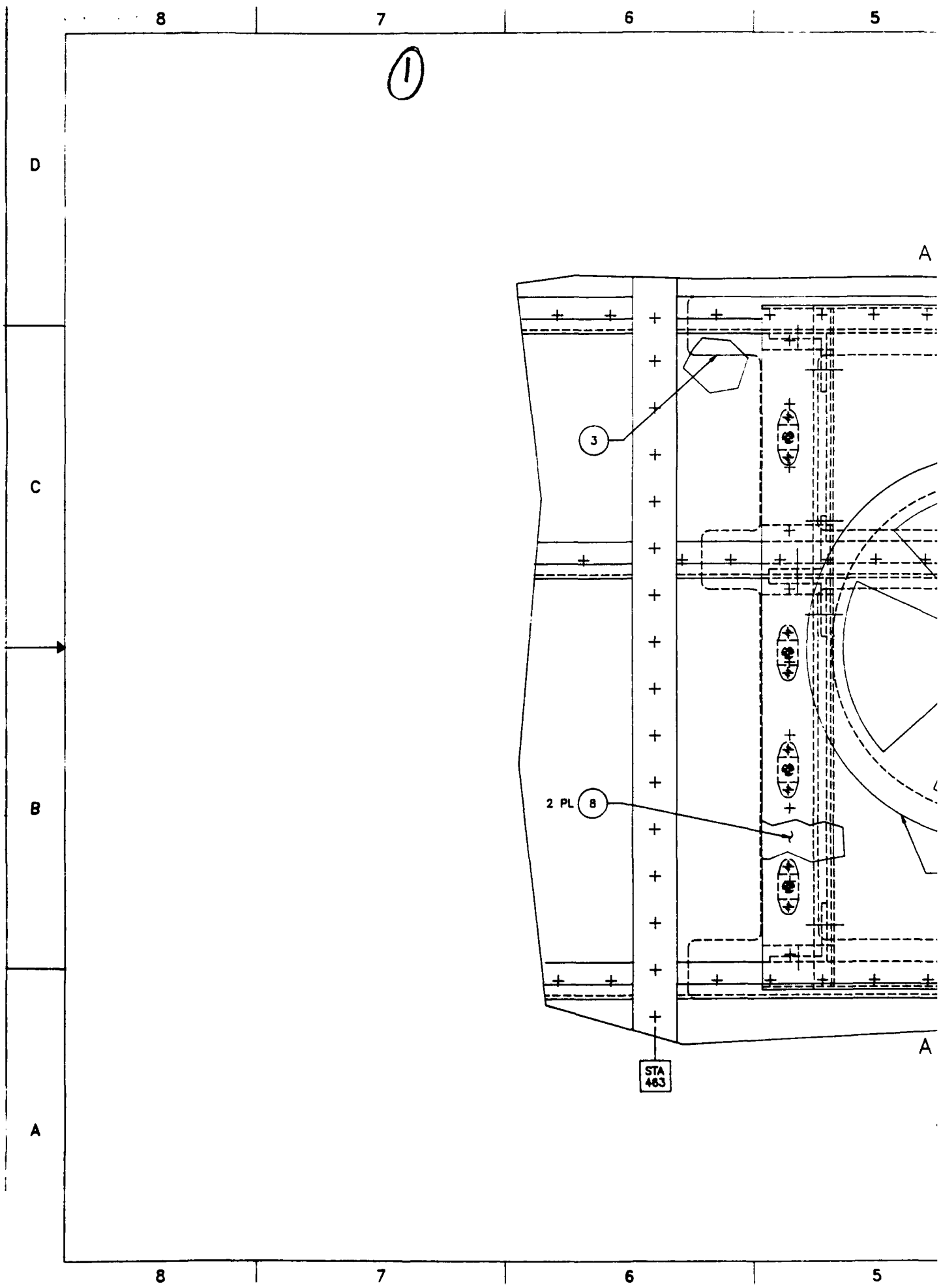
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56	RIVET	11815	CR3213-5		15
32	RIVET	11815	CR3213-4		14
2	WASHER		AN960C8L		13
2	SCREW		MS51957-57		12
8	WASHER		MS515795-808		11
8	SCREW		MS51958-63		10
1	FRAME		LEX-13353		9
2	CHANNEL		LEX-13354		8
2	SUPPORT		LEX-13352-2		7
2	SUPPORT		LEX-13352-1		6
8	ANGLE		LEX-13351		5
1	SCREEN		LEX-13355		4
1	FRAME		LEX-13356		3
1	FAN	2W924	PASPT 1824		2
1	HEAT EXCHANGER	16630	6501-12		1
	HEAT EXCHANGER INSTALLATION		LEX-13349		

SYN	DESCRIPTION	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	QTY
PARTS LIST							
ORDER SPECIFIED QUANTITY OF 1000-1000000 CO.		ORDER NO. DAAB07-92-Z-8506		S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY.			
W.B.M. 93-08-09 L.M. 93-08-18		HEAT EXCHANGER INSTALLATION					
D 7S976		LEX-13349					
1/1		1 3					

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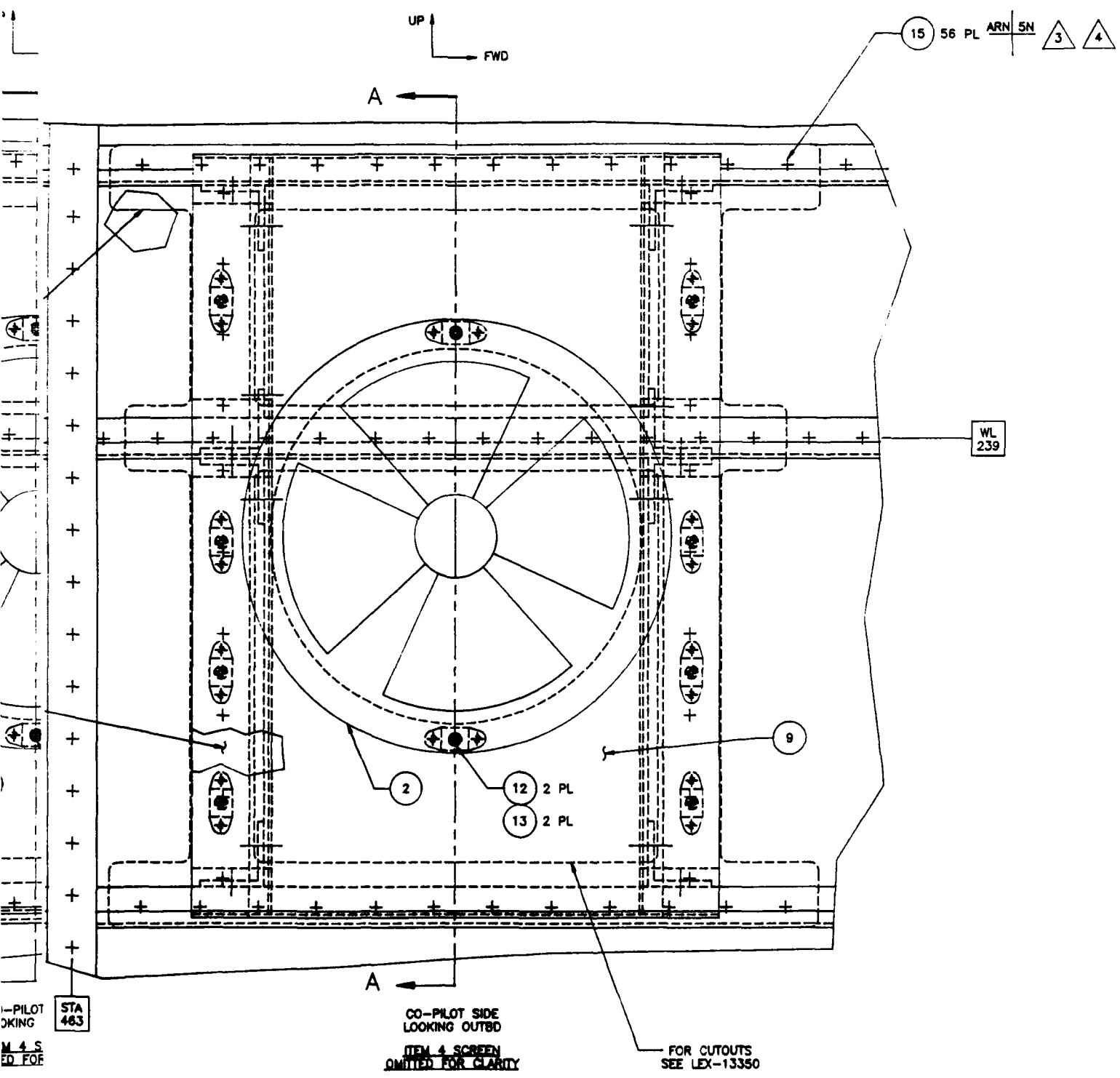
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ZONE	REV	CAD GENERATED

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DAAB07-92-Z-8EC6		D
W.B.M.	93-08-10	
L.M.	93-08-16	

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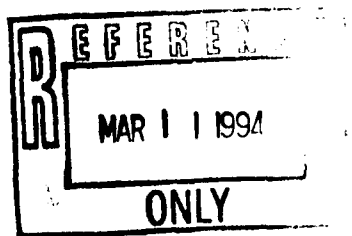
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15 56 PL ARN 5N 3 4

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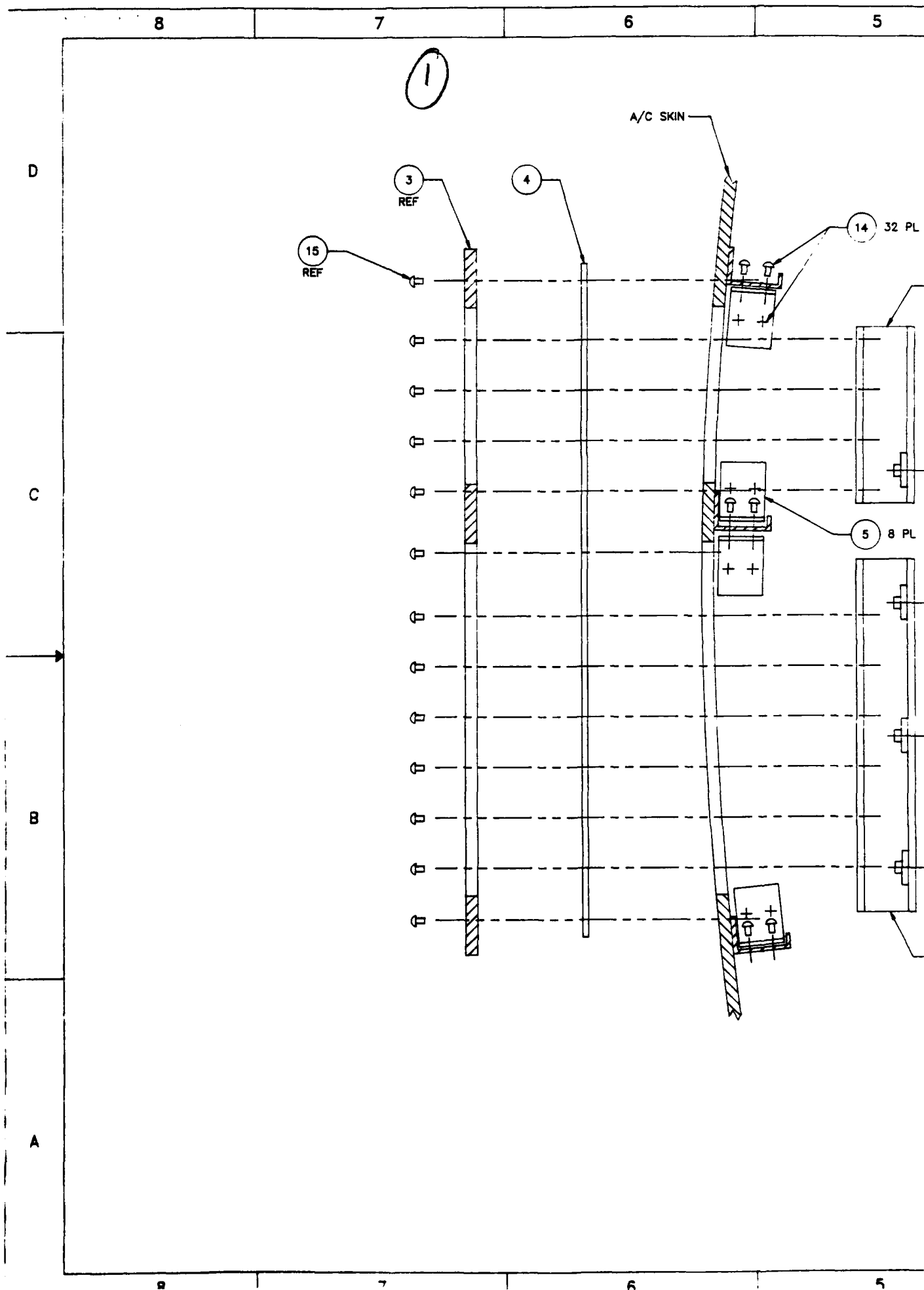
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DAAB07-92-Z-8506		D	7S976	LEX-13349
W.B.H.	93-08-10			
L.M.	93-08-16			

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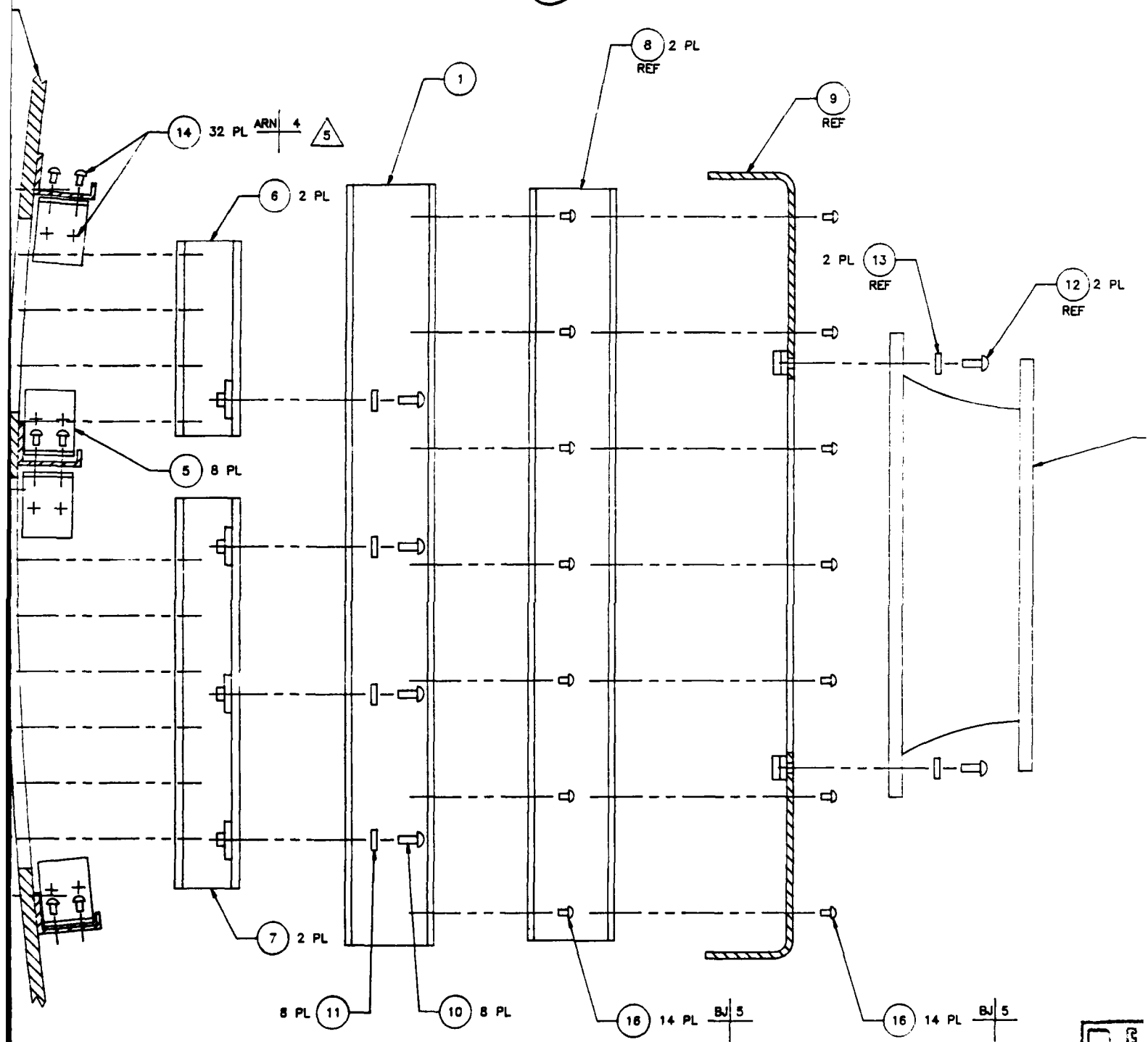
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REVISION

ZONE	REV	DESCRIPTION
		CAD GENERATED

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DAAB07-92-Z-B5C6		DATE	7S976
W.B.M.	93-08-11	REV	NONE
L.M.	93-08-18		

2			1		
REVISIONS					
ZONE	REV	DESCRIPTION		DATE	APPROVED
		CAD GENERATED		93-08-11	

8 2 PL
REF

9
REF

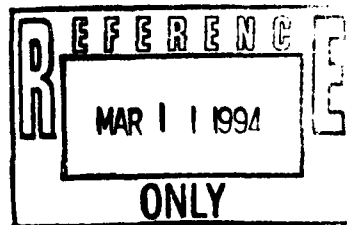
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12 2 PL
REF

2
REF

6 14 PL BJ 5

16 14 PL BJ 5



DAAS07-92-Z-B508		D 7S976		LEX-13349	
W.B.H.	93-08-11	NONE		3	3
W.L.M.	93-08-10				

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NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
- 2: INTERPRET ABBREVIATIONS PER MIL-STD-12
- 3: REMOVE BURRS AND BREAK ALL SHARP EDGES
- 4: DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
5. AFTER CUTTING APPLY MIL-C-5541 CLASS 1A ALODINE, THEN PRIME PER MIL-P-23377 TYPE 1 OR TT-P-1757 2 COATS. PAINT PER MIL-C-46168 CC #34031

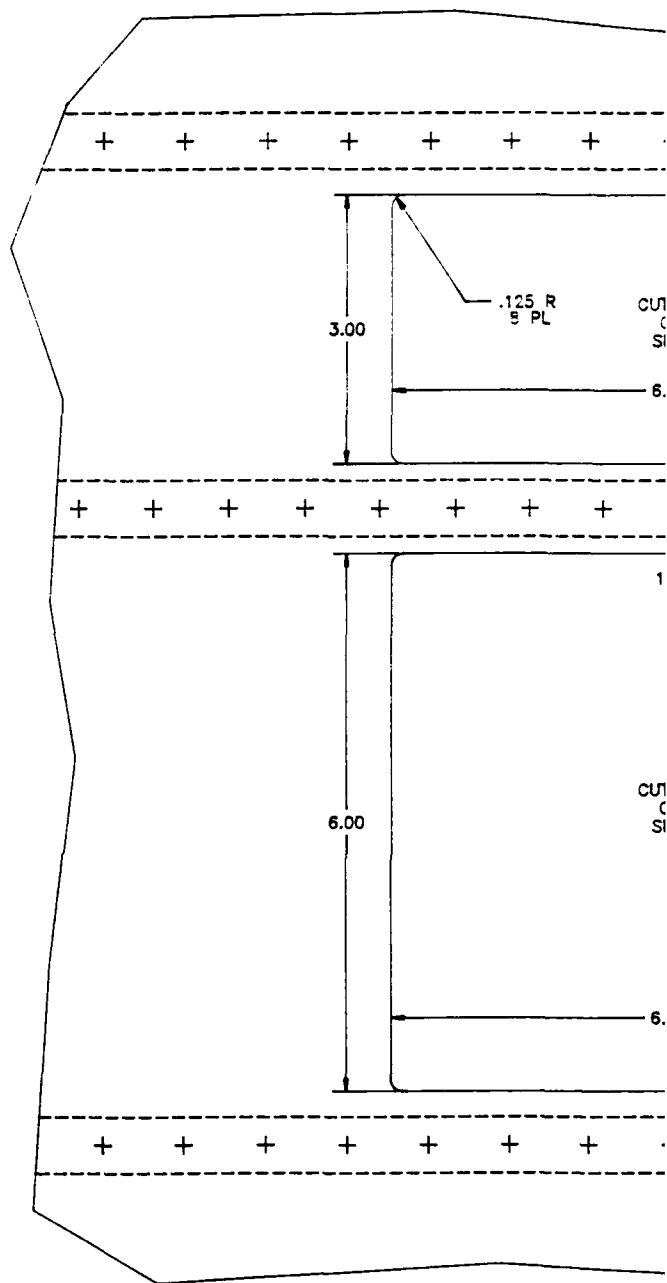
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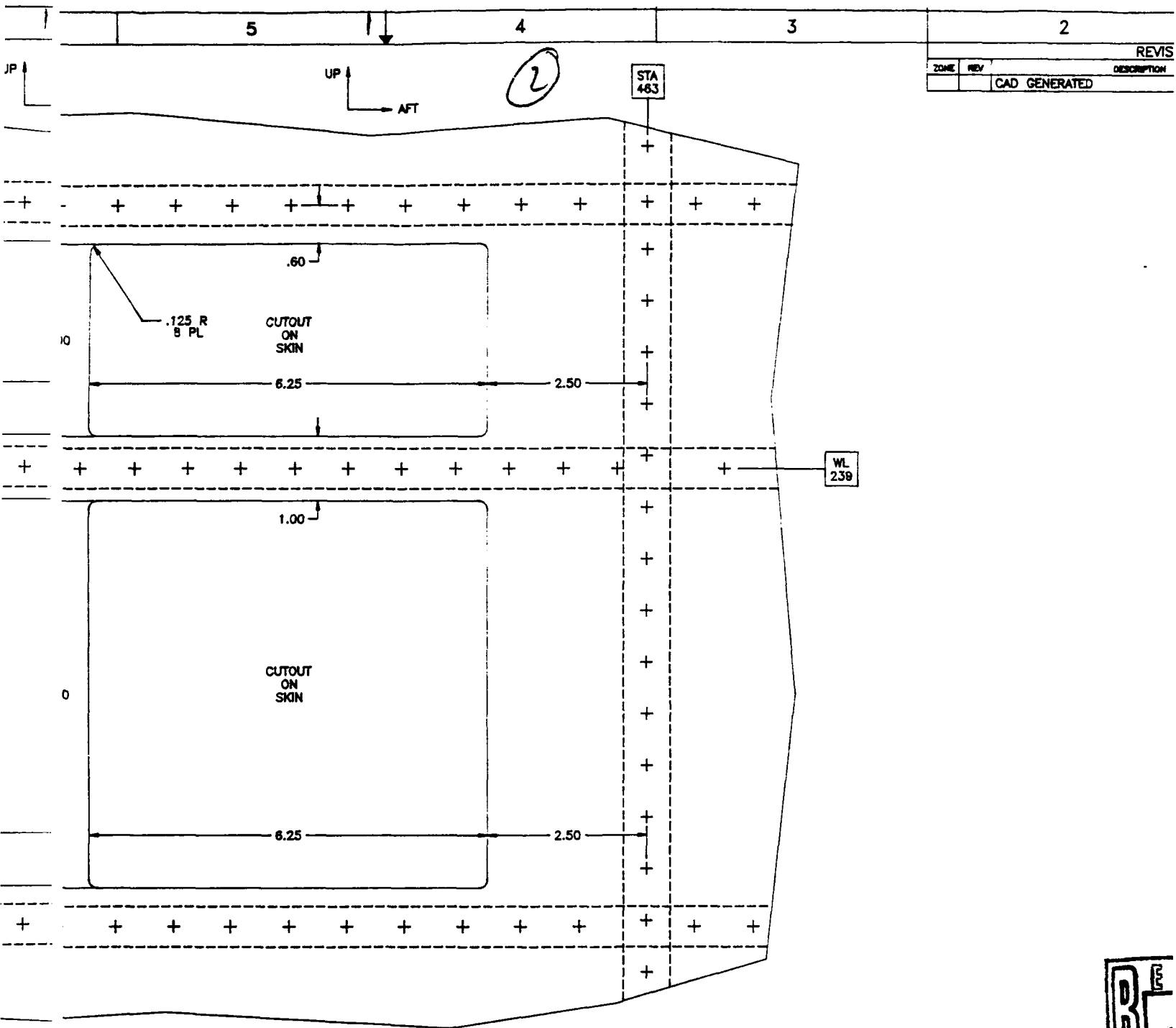
C

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CO-PIL/
LOOKIN



CO-PILOT SIDE
LOOKING INBD

FRAME CUTOUT		LEX-13350	
SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.
QUANTITY REQUIRED PER DASH NO			
UNLESS OTHERWISE SPECIFIED			
PARTS LIST			
DAAB07-92-Z-B506		SERV- A SUBSID	
W.B.H. 83-08-08		L.M. 83-08-16	
FINISH:		5	
LEX-13349		UH-600	
APPLICATION		D 7S976	

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ONLY
CIFICATION
, INC.
E-SYSTEM
FRAME
OUT
LEX

NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6. CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A EPOXY POLYAMIDE PRIME PER MIL-P-23377 OR TT-P-1757 TYPE 1, 2 COATS

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		X		ANGLE	
		SYM		NOMENCLATURE	
QUANTITY REQUIRED PER DASH NO					
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCING	
				FRACTIONS DECIMALS	
				± .00	± .01
				± .02	± .03
				± .04	± .05
				FINISH:	
				6	
LEX-13349		UH-600			
CURRENT CODE IDENT. NO.		NOT ASSEMBLY USED ON			
APPLICATION					

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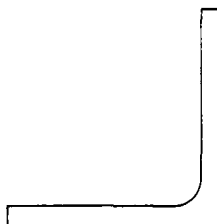
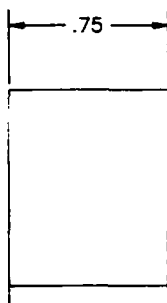
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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-08-09	

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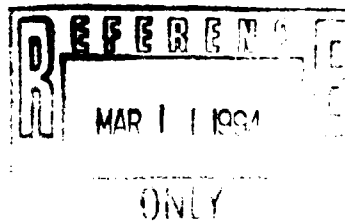
B

REV

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LEX-13351

REV



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ANGLE

LEX-13351

.094x.95 AND:0133-1002
7075-T6511 QQ-A-200/11

ED PER DASH NO	SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	PROD NO.
PARTS LIST								
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCES UNLESS OTHERWISE SPECIFIED			CONTRACT NO. DAAB07-92-Z-B506		SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY.			
FINISH: 			DR. W.B.H. 93-08-09 CHL. L.M. 93-08-16 ENL.		ANGLE			
UH-800 USED ON			C 7S976		LEX-13351			
CATION			SCALE 2/1		SHEET 1 of 1			

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NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6. IDENTIFICATION CODE OF FASTENERS PER NAS-523
7. INSTALLATION CODE OF FASTENERS PER MIL-STD-1515
8. CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE 1 OR TT-P-1757, 2 COATS
9. USE HEAT X-CHANGER PN/16630 CAGE 6501-12 TO DETERMINE ϕ .210 HOLE AND ITEM 1 NUTPLATE LOCATION

BB 3N 6 PL

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 ϕ .098
6 PL ϕ .210
3 PL

BB 3N

2 PL

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 ϕ .098
6 PL

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BASIC CODE	NAS 5:
BB-MS20428AD	RETAIL
	BASIC
	C-COUNTED
	BOTH SH
	CHK 101
	GRIND P

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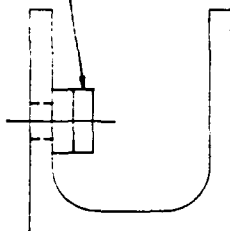
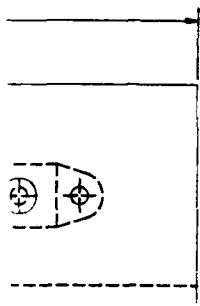
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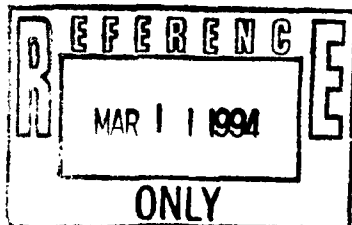
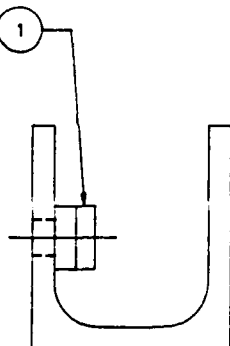
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		CAD GENERATED	93-08-09	

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6	2	RIVET	MS20426AD3	EA	2					
3	1	NUT/PLATE	MS21078L3	EA	1					
37-10 -A-20	X	SUPPORT	LEX-13352-2	.125x8.2 AND 10137-1012 7075-T6511 QQ-A-200/11						
37-10 -A-20	X	SUPPORT	LEX-13352-1	.125x3.2 AND 10137-1012 7075-T6511 QQ-A-200/11						
LOCATION	-2	-1	SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	QTY
<div style="display: flex; justify-content: space-between;"> <div> <p>FINISH: </p> </div> <div> <p>DAAB07-92-Z-B508</p> <p>W.B.H. 93-08-09</p> <p>L.M. 93-08-16</p> </div> <div> <p>SERV-AIR, INC. S.O.F.S.A.</p> <p>A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.</p> <p>SUPPORT</p> </div> </div>										
D 7S976			LEX-13352							
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NOTES:

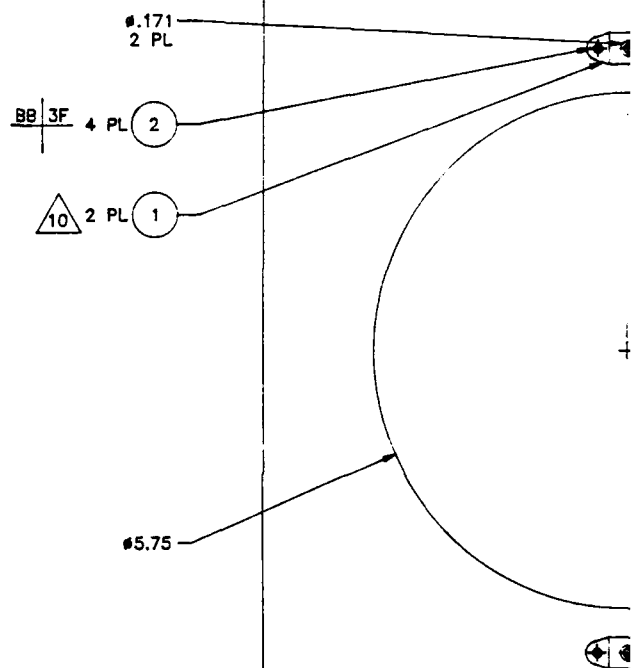
1. INTERPRET DRAWING PER MIL-T-31000 AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1982
6. IDENTIFICATION CODE OF FASTENERS PER NAS-523
7. INSTALLATION CODE OF FASTENERS PER MIL-STD-1515
8. CHEMICAL CONVERSION COAT PER MIL-C-5541, CLASS 1A EPOXY POLYAMIDE PRIME PER MIL-P-23377 TYPE 1 OR TT-P-1757, 2 COATS
9. CARC PAINT PER MIL-C-46168, 1 COAT CC #36231 (GREY). APPLY CARC PAINT PER MIL-C-53072
10. USE FAN PN/PASPT 1624 CAGE 2W924 TO DETERMINE ϕ .171 HOLES AND ITEM 1 NUTPLATE LOCATION

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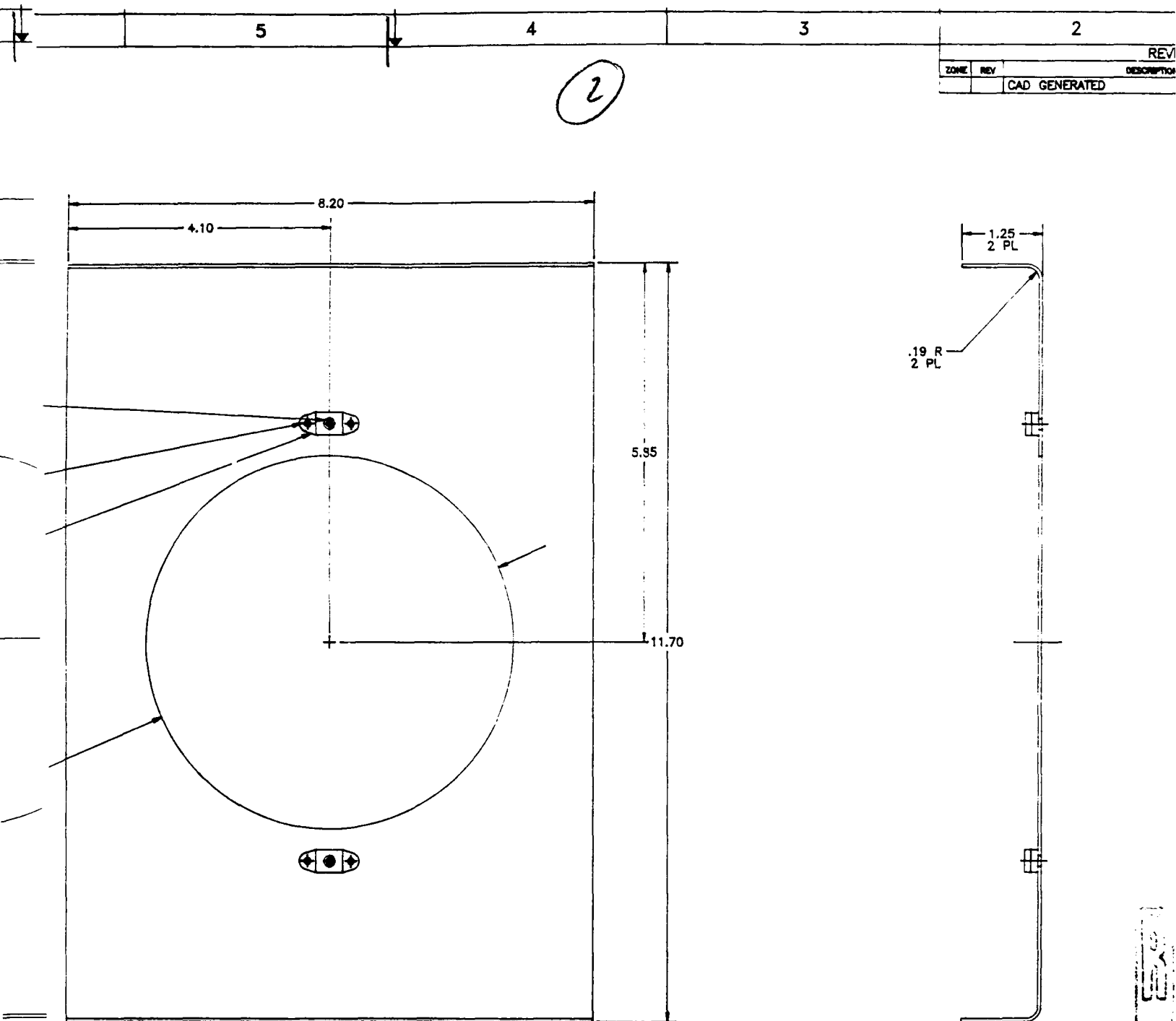
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BASIC CODE	NAS 52
BB-MS20428AD	INSTALL
	BASIC
	COUNTED
	BOTH S
	CSK 100
	GRIND P



4		RVET		MS20426AD3	
2		NUTPLATE		MS21076L08	
	X	FRAME		LEX-13353	.050x8. AL ALY

QUANTITY REQUIRED PER DASH NO		PARTS LIST			
SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS AND ANGLES ARE IN DEGREES				
	FINISH: 8 9				
	CONTRACT NO. DAAB07-92-Z-B506				
	BY W.B.J. 93-08-09				
	BY L.M. 93-08-18				
	DATE				
	D 7S976				
	1/1				

TENER CO
 S. PETER MC
 DASH NO
 H-MFG
 P-MFG I
 DASH NO
 LENGTH

BASIC CODE	HAS 523 FASTENER CODE
88-4E2042840	METALL BRATE PER ME1515 BASIC CODE DASH NO FOR DIA H-MFG HEAD N/3 P-MFG HEAD P/3 C-COUNTERSINK BOTH SIDES CEN 100° AND GRIND FLUSH DASH NO FOR LENGTH

LEX-13344	UH-600
APPLICATION	

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ZONE	REV	DESCRIPTION	DATE
		CAD GENERATED	93-08-09

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4	RIVET	MS20426AD3	EA	2
2	NUTPLATE	MS21076L08	EA	1
X	FRAME	LEX-13353	.050x8.4x14.4 2024-T3 AL ALY QQ-A-250/5	

DASH NO		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS FINISH:  		DAAB07-92-Z-B508 W.B.H. 93-08-09 L.M. 93-08-18 FRAME D 7S976 LEX-13353 1/1	
R, INC E-SYS FRAM LE		SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY. 1 1	

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NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. CHEMICAL CONVERSION COAT PER MIL-C-5541,
CLASS 1A EPOXY POLYAMIDE PRIME PER
MIL-P-23377 TYPE 1 OR TT-P-1757, 2 COATS
7. CARC PAINT PER MIL-C-46168, 1 COAT
CC #36231 (GREY). APPLY CARC PAINT PER
MIL-C-53072

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				REVISION
				DESCRIPTION
				CAD GENERATED

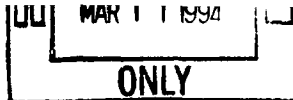
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QUANTITY REQUIRED PER DASH NO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		CHANNEL LEX-13354		.125x11.6 7075-T651
		SYM NOMENCLATURE CODE IDENT IDENTIFYING NO.	PARTS LIST DAAB07-92-Z-B506 W.B.H. 93-08-09 L.M. 93-08-18 FINISH: 6 7 D 7S976	
APPLICATION LEX-13354 UH-60A		1/1		

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LEX-

DAAB07-92-Z-B506		D	7S976	LEX-13349
W.S.H.	93-08-11			
L.M.	93-08-18	NONE		

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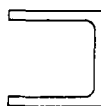
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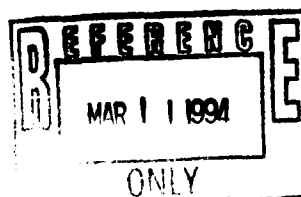
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0137-120
3-A-200/
SPECIFICATION

X	CHANNEL	LEX-13354	.125x11.6 AND 10137-1207 7075-T8511 QQ-A-200/11			
	SYN	DESCRIPTION	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M
PARTS LIST						
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES-DECIMALS		DAAB07-92-Z-B506 W.S.H. 93-08-08 L.M. 93-08-18 FINISH:				
SERV-AIR, INC. A SUBSIDIARY OF E-SYSTEMS, INC. LIBA LEX, KY.		CHANNEL				
D 7S976		LEX-13354				
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SPECIFICATION

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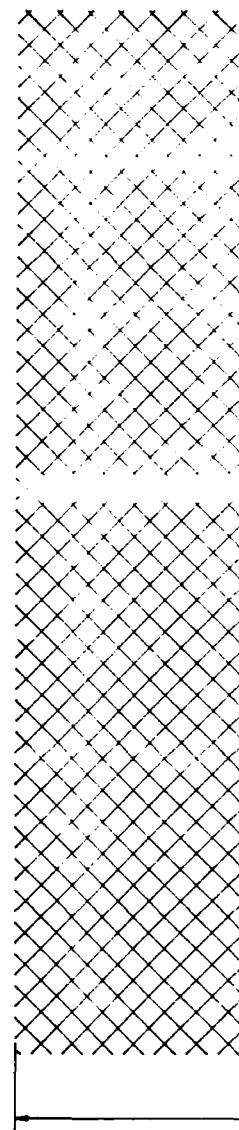
1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. MARK PARTS PER MIL-STD-130
4. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982

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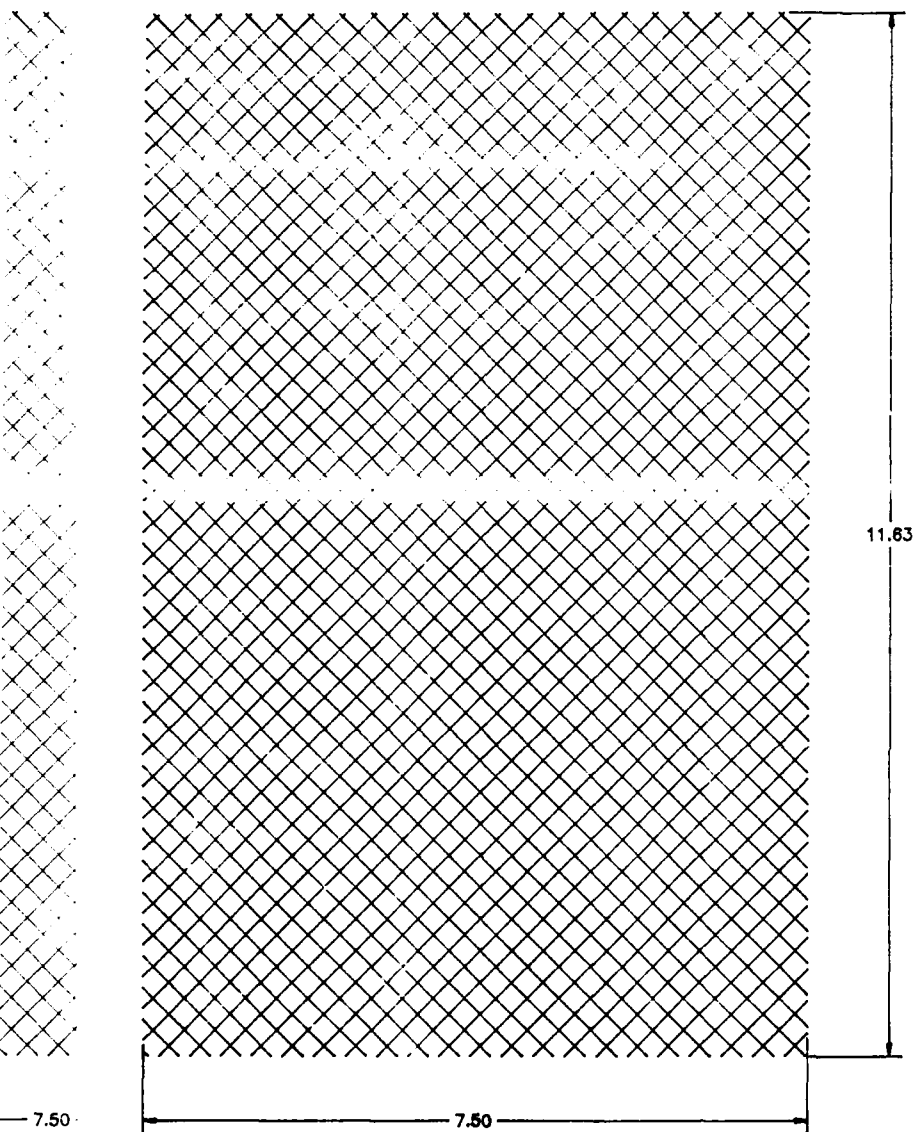
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ZONE		REV	DESCRIPTION		
			CAD GENERATED		



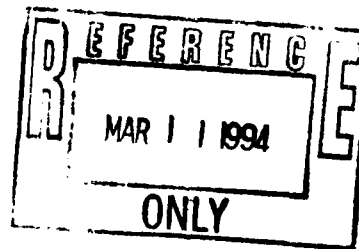
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MAR 1 1983
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		SCREEN		LEX-13355-1		.032x.25 MESH 304 CRES	
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QUANTITY REQUIRED PER DASH NO				PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR FRACTIONS 1/8" 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1"				DAAB07-92-Z-B506 W.B.H. 93-08-09 L.M. 93-08-16			
LEX-13344		UH-600					
APPLICATION						D 7S976	
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REVISIONS					
ZONE	REV	DESCRIPTION		DATE	APPROVED
		CAD GENERATED		93-08-09	

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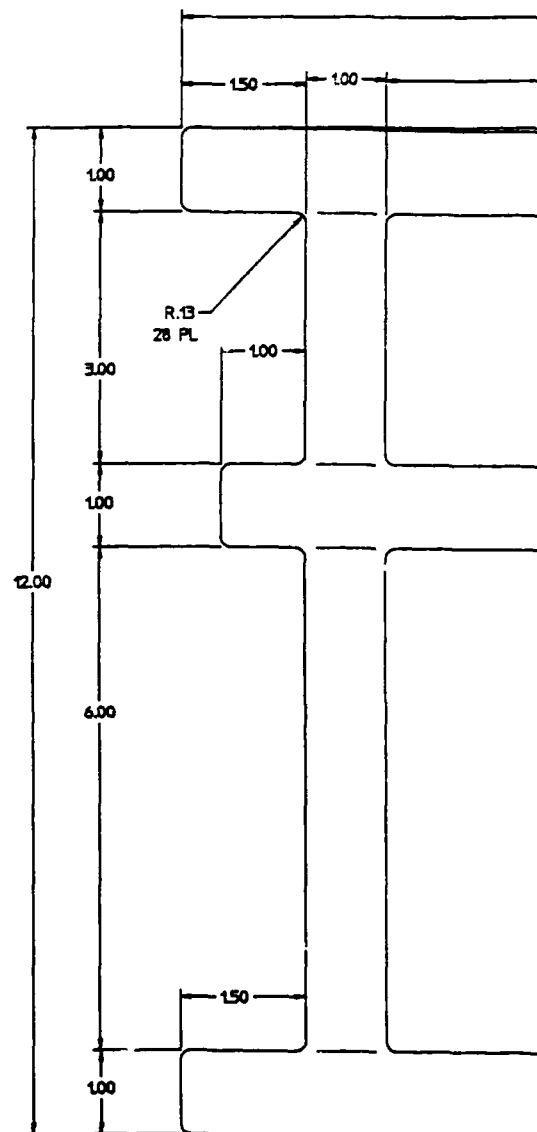
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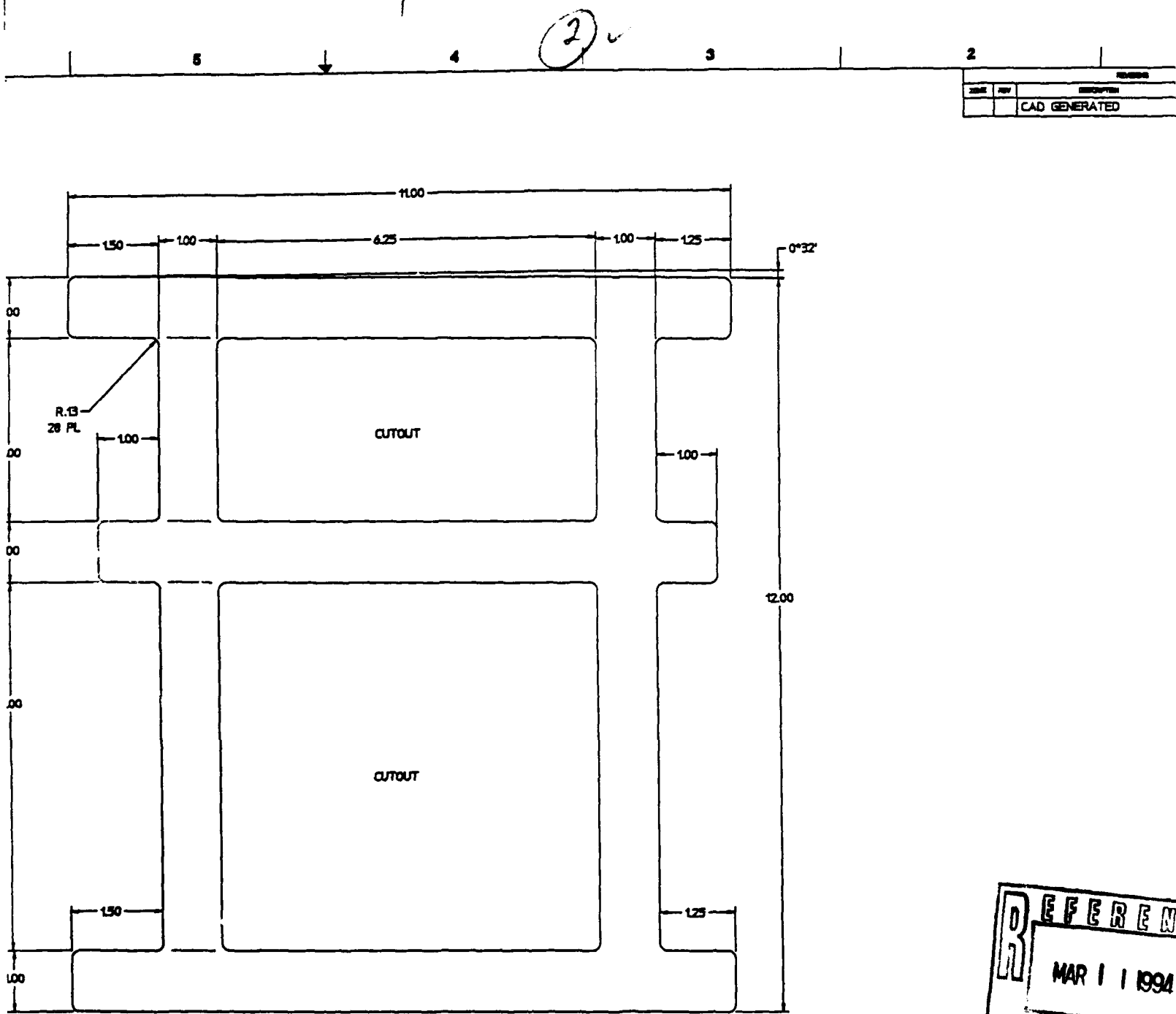


K11.9		SCREEN		LEX-13355-1		.032x.25 MESH 7.7x11.9 304 CRES				
NON		SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION		U/M	ZONE	SP
R DASH NO		PARTS LIST								
INC.		UNLESS OTHERWISE SPECIFIED		DAAB07-92-Z-B506		SERV-AIR, INC.		S.O.F.S.A.		
SYSTEMS, INC.		A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY.		W.B.H. 93-08-09		SCREEN				
EEN		L.M. 93-08-16								
LEX-1		H-400		D 7S976		LEX-13355				
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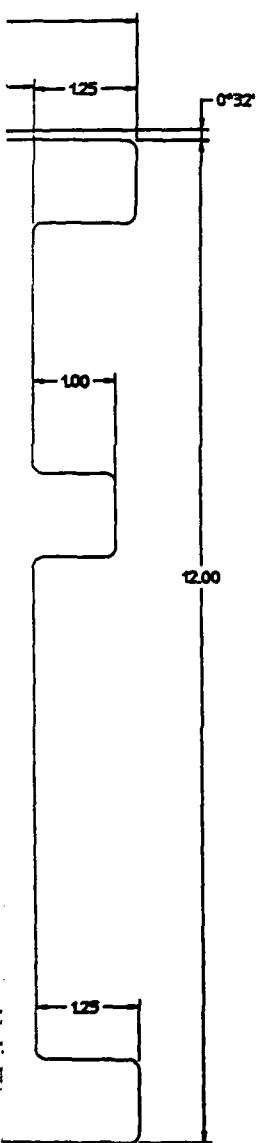
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		CAD GENERATED

REFERENCE
MAR 11 1994
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FRAME		LEX-13354	.032x12.25x11.25
SYN		NOMENCLATURE	2024-T3 AL ALY 00-A-250/
QUANTITY REQUIRED PER DASH NO.		IDENTIFYING NO.	MATERIAL/SPECIFICATION
		PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-TOLERANCES ON FINISH		CONTRACT NO. DAAB07-92-Z-8506	SERV-AIR, INC. A SUBSIDIARY OF E-SYSTEMS
FINISH		SLH 93-07-20	FRAM
		LH 93-12-07	
		QCM 93-12-07	
LEX-13349 LH-400			D 7S976 LEX-
APPLICATION			1/1

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DATE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-07-20	



REFERENCE
MAR 1 1 1994
ONLY

FRAME		LEX-13356		.032x12.25x125					
SYN NOMENCLATURE		IDENTIFYING NO.		MATERIAL/SPECIFICATION		U/M		ZONE P/N NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS UNLESS OTHERWISE NOTED		CONTRACT NO. DAA807-92-Z-8506		SERV-AIR, INC. A SUBSIDIARY OF E-SYSTEMS INC. LEAD LEX, KY.		SOP3A			
PARTS LIST		93-07-20 93-12-07 93-12-07		FRAME					
D 7S976		LEX-13356							

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NOTES:

1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. IDENTIFY TUBING ASSY PER MIL-STD-1247

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2	PLUG	AN806-10D
1	UNION	AN815-10D
2	REDUCER	AN919-20D
1	CROSS	AN918-6D
2	ADAPTER	AN816-10-12D
1	REDUCER	AN893-31
1	REDUCER	AN919-6
1	ADAPTER	MS20392-8D
4	TEE	AN824-8D
3	PLUG	AN806-8D
1	MSOGS TUBING ASSY	LEX-13371
1	MSOGS TUBING ASSY	LEX-13370
1	MSOGS TUBING ASSY	LEX-13369
1	MSOGS TUBING ASSY	LEX-13368
1	MSOGS TUBING ASSY	LEX-13367
1	MSOGS TUBING ASSY	LEX-13366
1	MSOGS TUBING ASSY	LEX-13365
1	MSOGS TUBING ASSY	LEX-13364
1	MSOGS TUBING ASSY	LEX-13363
1	MSOGS TUBING ASSY	LEX-13362
1	MSOGS TUBING ASSY	LEX-13361
1	MSOGS TUBING ASSY	LEX-13360
1	MSOGS TUBING SCHEM	LEX-13359

SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.
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QUANTITY REQUIRED PER DASH NO

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR FRACTIONS		REVISION NO. DAAB07-92-Z-B506
2 1/2"	2 1/2"	BY W.B.H. 93-08-02
2 1/2"	2 1/2"	BY L.M. 93-08-09
2 1/2"	2 1/2"	BY
LEX-13321	UN-002	
APPLICATION		

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MAR 11 1994
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QTY	DESCRIPTION	PART NO.	U/M	ZONE	QTY
2	PLUG	AN806-10D	EA		22
1	UNION	AN815-10D	EA		21
2	REDUCER	AN919-20D	EA		20
1	CROSS	AN918-6D	EA		19
2	ADAPTER	AN816-10-12D	EA		18
1	REDUCER	AN893-31	EA		17
1	REDUCER	AN919-6	EA		16
1	ADAPTER	MS20392-8D	EA		15
4	TEE	AN824-8D	EA		14
3	PLUG	AN806-8D	EA		13
1	MSOGS TUBING ASSY	LEX-13371	EA		12
1	MSOGS TUBING ASSY	LEX-13370	EA		11
1	MSOGS TUBING ASSY	LEX-13369	EA		10
1	MSOGS TUBING ASSY	LEX-13368	EA		9
1	MSOGS TUBING ASSY	LEX-13367	EA		8
1	MSOGS TUBING ASSY	LEX-13366	EA		7
1	MSOGS TUBING ASSY	LEX-13365	EA		6
1	MSOGS TUBING ASSY	LEX-13364	EA		5
1	MSOGS TUBING ASSY	LEX-13363	EA		4
1	MSOGS TUBING ASSY	LEX-13362	EA		3
1	MSOGS TUBING ASSY	LEX-13361	EA		2
1	MSOGS TUBING ASSY	LEX-13360	EA		1
X	MSOGS TUBING SCHEM	LEX-13359			

QTY	DESCRIPTION	PART NO.	U/M	ZONE	QTY
PARTS LIST					
UNLESS OTHERWISE SPECIFIED		S.O.F.S.A.			
DAAB07-92-Z-B508		SERV-AIR, INC.			
		A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY.			
W.B.H. 93-08-02		MSOGS TUBING SCHEMATIC			
L.M. 93-08-08					
		D 7S976 LEX-13359			
		NONE			

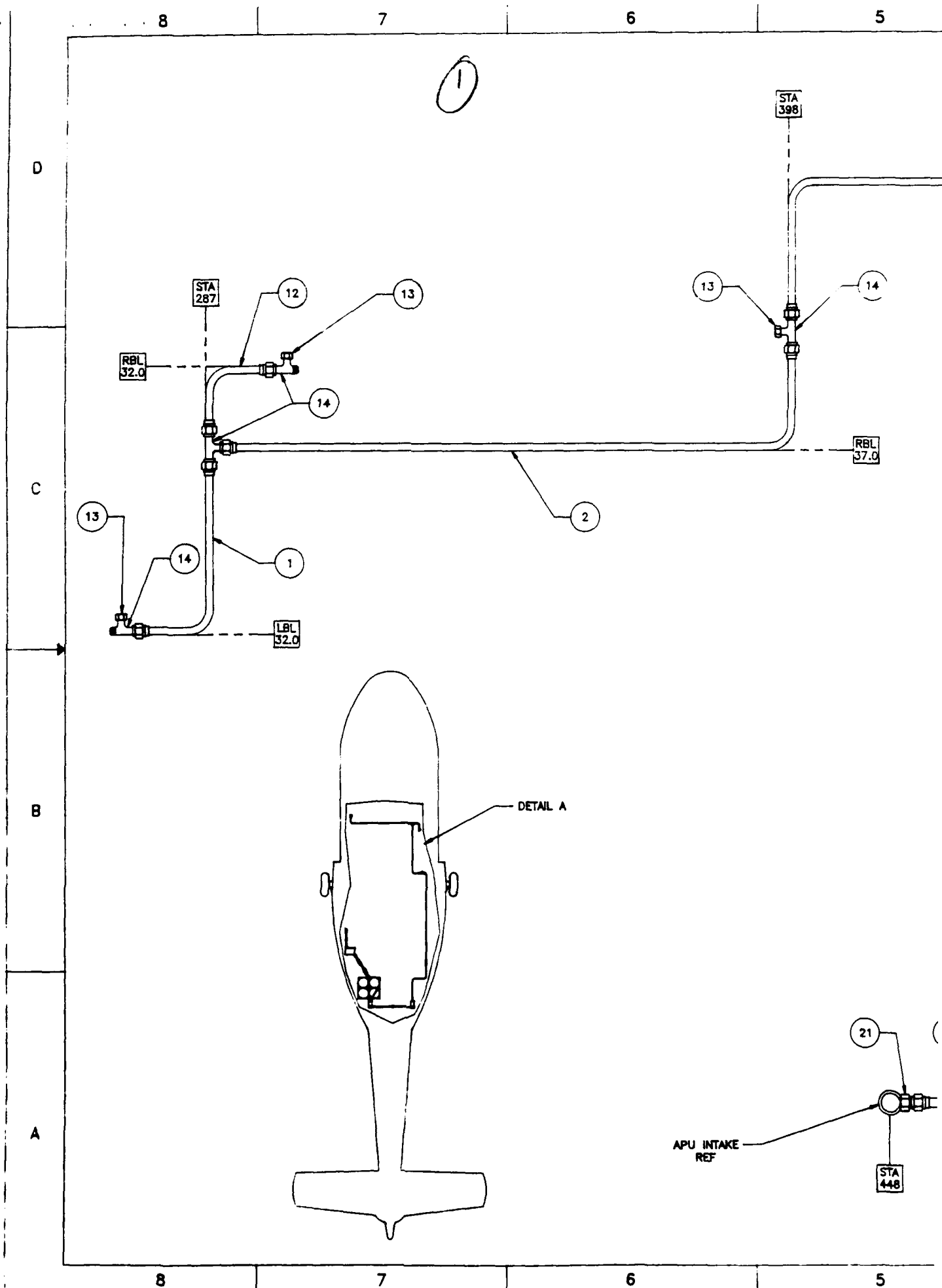
13351 UN-800

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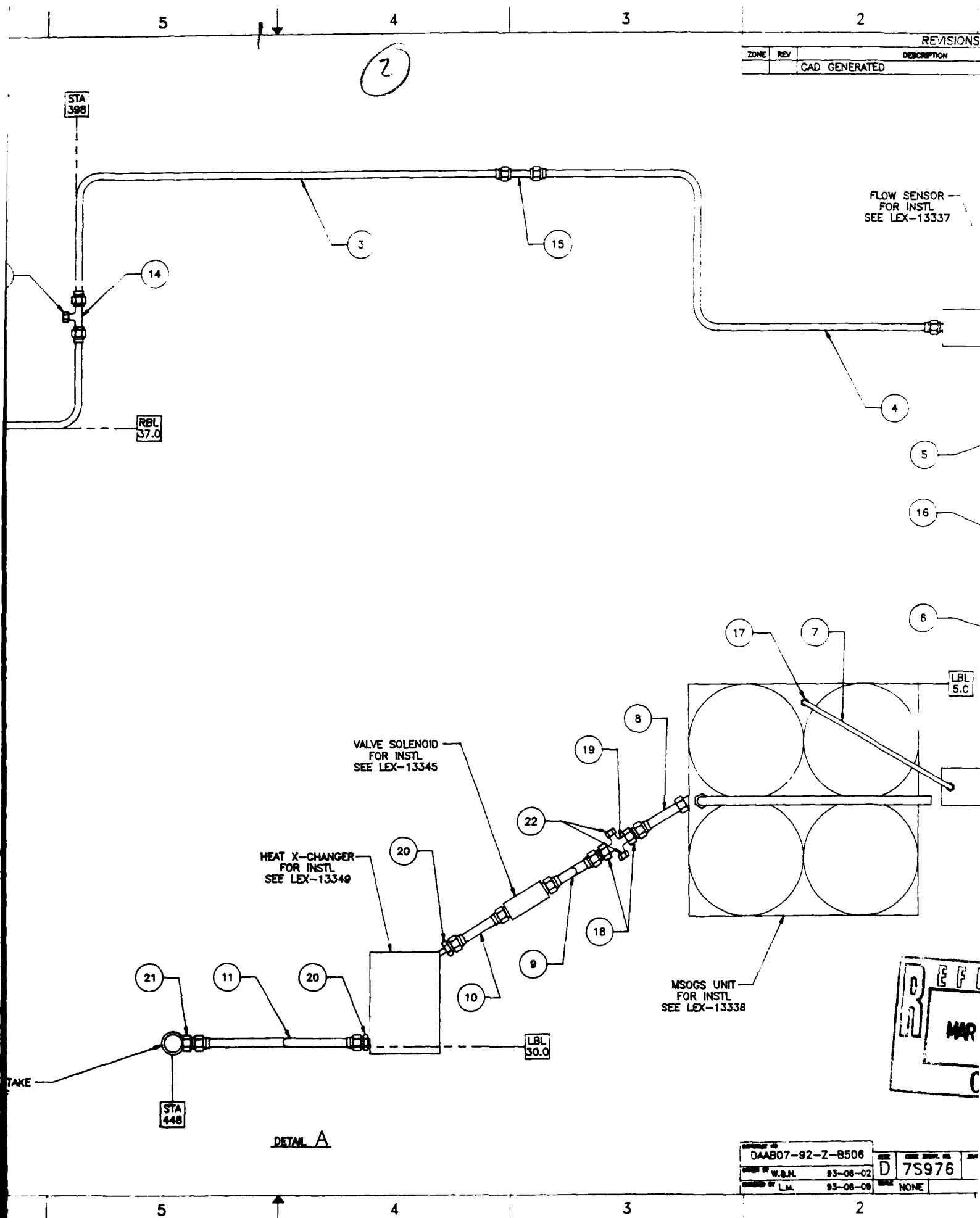
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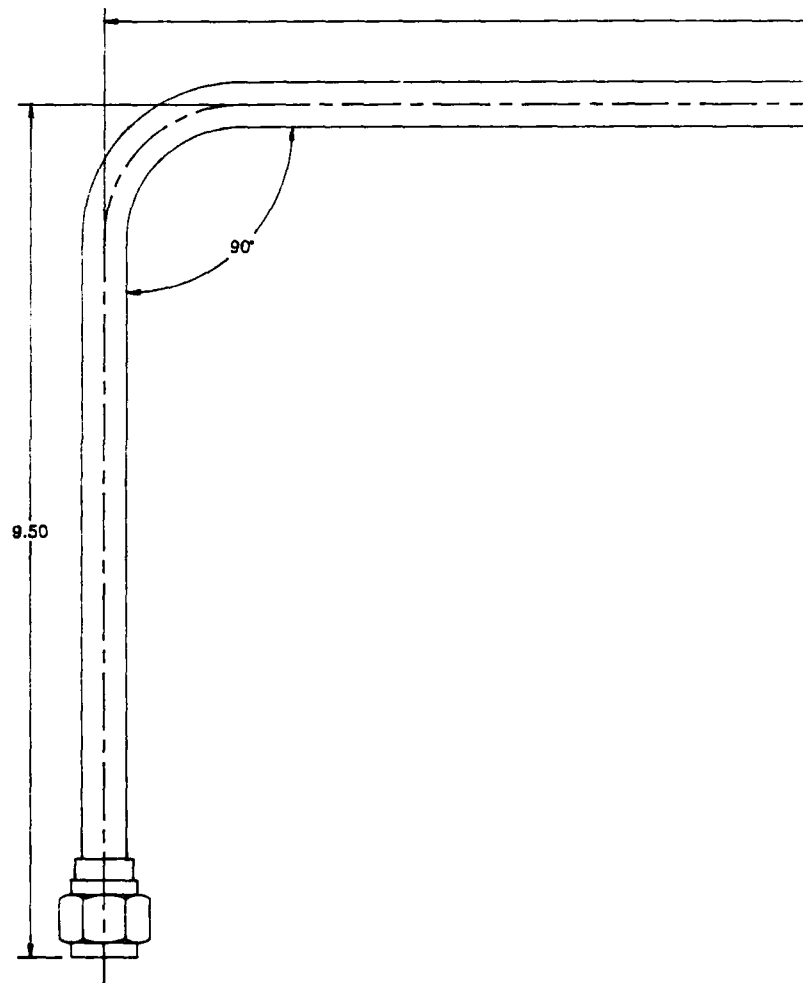
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L.M.	93-08-09	NONE

NOTES:

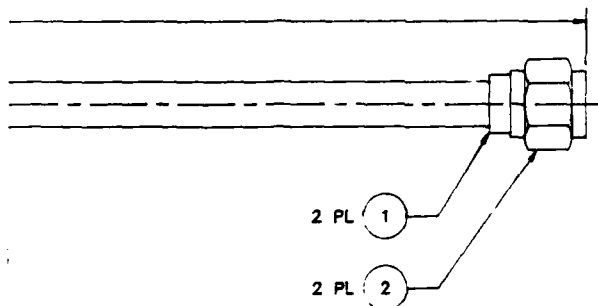
1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611





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2	NUT	AN818-8DN			2
2	SLEEVE	MS20819-8DS			1
	MSOGS TUBING ASSY	LEX-13360	.375 ID x .063 WALL x 102.0 3003-H14 ALUMINUM TUBING		

PARTS LIST

DASH NO 3 2 1		DAAB07-92-Z-B506 W.B.H. 93-07-30 L.M. 93-08-08		SERV-AIR, INC. A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY. MSOGS TUBING ASSEMBLY D 7S976 LEX-13360	
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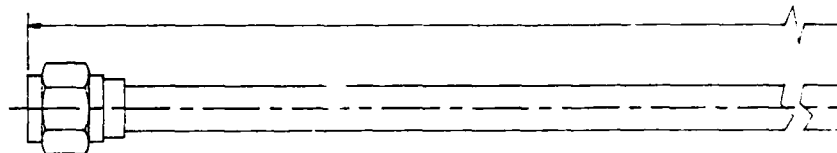
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NOTES:

1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611

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ZONE	REV	DESCRIPTION
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2		NUT		AN818-8D	
2		SLEEVE		MS20819-8D	
		MSOGS TUBING ASSY		LEX-13361	.375 ID x 3003-H14

SYN	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	UNIT
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QUANTITY REQUIRED PER DASH NO

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR FEET-DECIMALS FINISHES 1/8" 1/16" 1/32" 1/64" 3/16" 1/2" 5/8" 3/4" 1" 1 1/4" 1 1/2" 2" 2 1/2" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2" 9" 9 1/2" 10" 11" 12" 14" 16" 18" 20" 22" 24" 26" 28" 30" 32" 34" 36" 38" 40" 42" 44" 46" 48" 50" 52" 54" 56" 58" 60" 62" 64" 66" 68" 70" 72" 74" 76" 78" 80" 82" 84" 86" 88" 90" 92" 94" 96" 98" 100" 102" 104" 106" 108" 110" 112" 114" 116" 118" 120" 122" 124" 126" 128" 130" 132" 134" 136" 138" 140" 142" 144" 146" 148" 150" 152" 154" 156" 158" 160" 162" 164" 166" 168" 170" 172" 174" 176" 178" 180" 182" 184" 186" 188" 190" 192" 194" 196" 198" 200" 202" 204" 206" 208" 210" 212" 214" 216" 218" 220" 222" 224" 226" 228" 230" 232" 234" 236" 238" 240" 242" 244" 246" 248" 250" 252" 254" 256" 258" 260" 262" 264" 266" 268" 270" 272" 274" 276" 278" 280" 282" 284" 286" 288" 290" 292" 294" 296" 298" 300" 302" 304" 306" 308" 310" 312" 314" 316" 318" 320" 322" 324" 326" 328" 330" 332" 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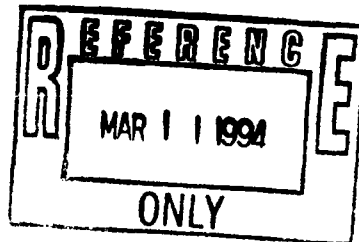
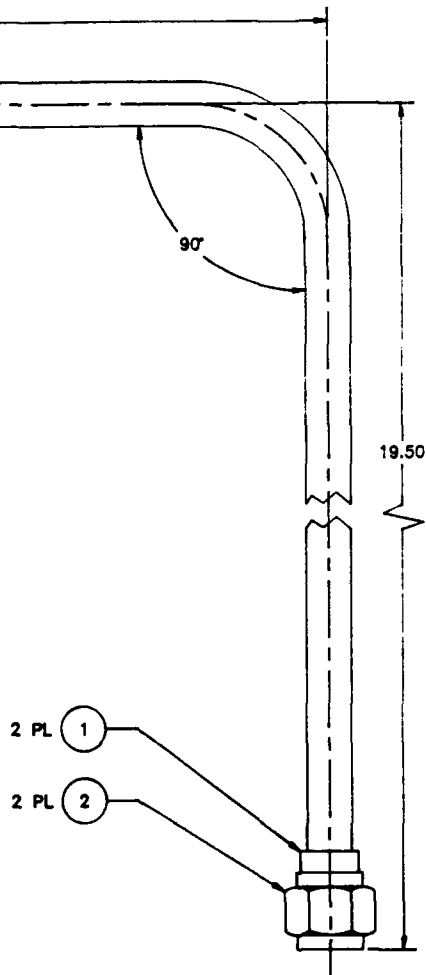
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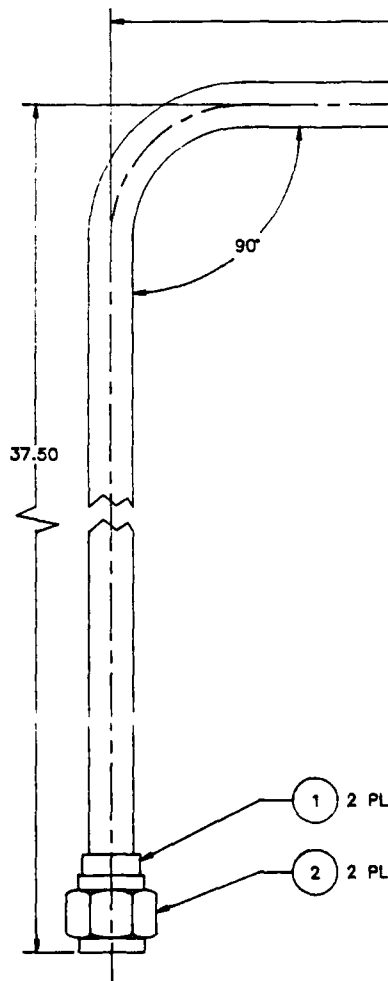
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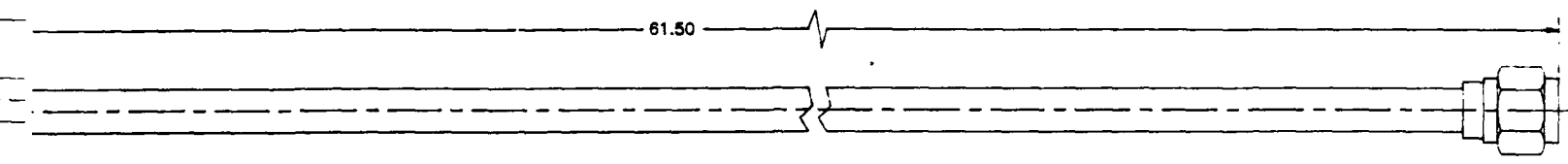
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS				SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.				
DAAB07-92-Z-B506				MSOGS TUBING ASSEMBLY				
BY W.B.H. 93-07-30								
BY L.M. 93-08-08				D 7S976 LEX-13361				

NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611



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2	NUT	AN818-8D	
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	SYM	NOMENCLATURE	CODE IDENT IDENTIFYING NO. MATERIAL

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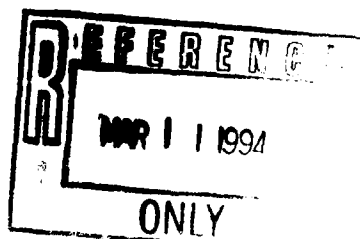
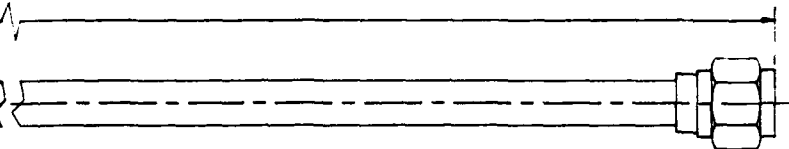
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SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE

PARTS LIST

UNLESS OTHERWISE SPECIFIED

CONTRACT NO.

SERV-AIR, INC.

S.O.F.S.A.

DANBURY 0047-0000

A SUBSIDIARY OF E-SYSTEMS, INC. LEAD

W.S.H. 93-07-30

L.M. 93-08-09

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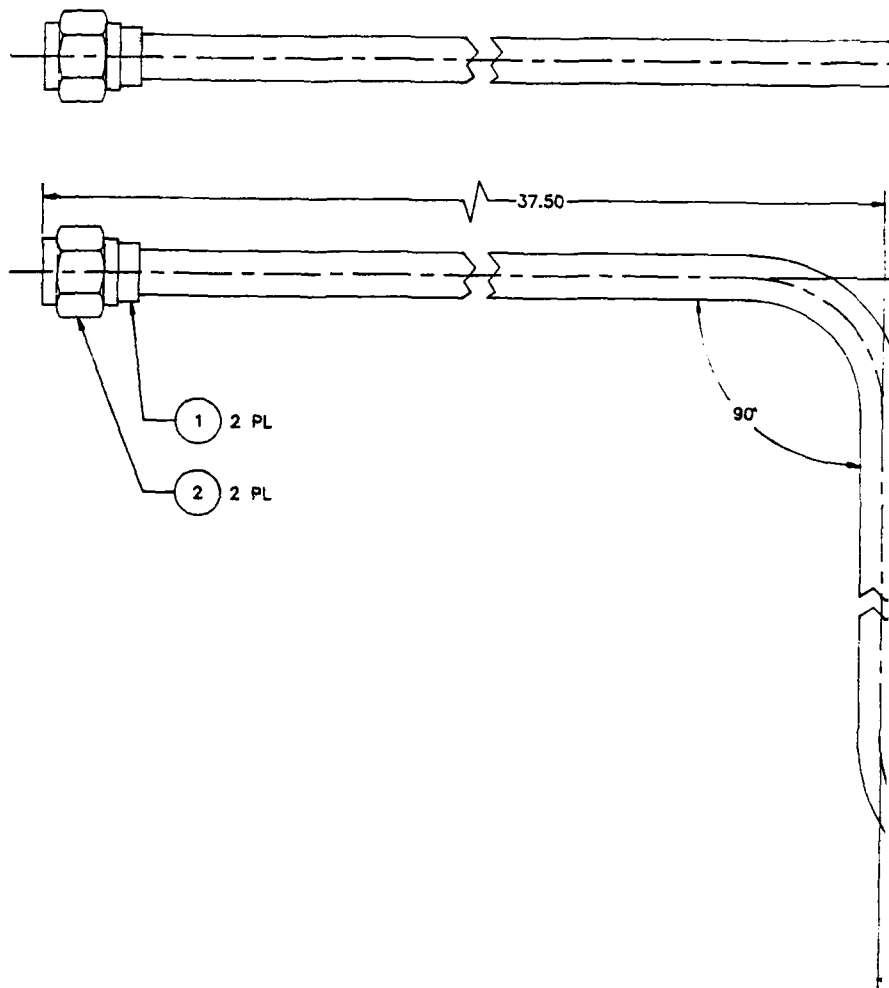
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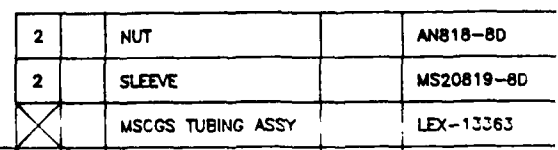
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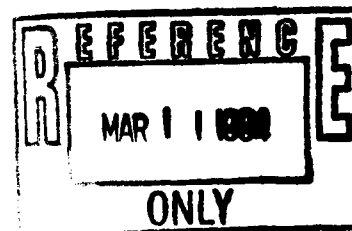
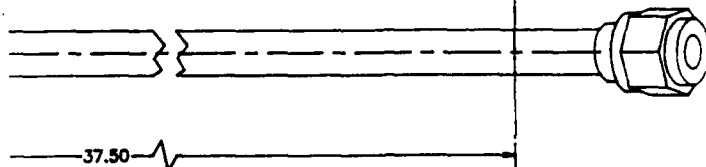
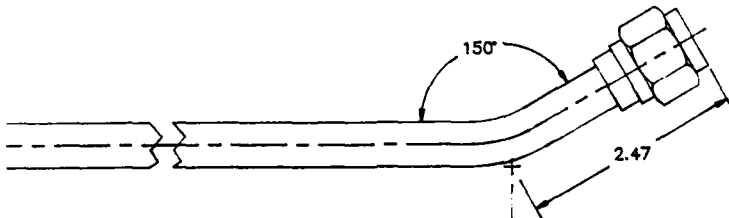
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2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611





REVISIONS			DATE	APPROVED
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QUANTITY REQUIRED PER DASH NO		PARTS LIST			
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W.B.H. 93-07-30 L.M. 93-08-08		MSOGS TUBING ASSEMBLY			
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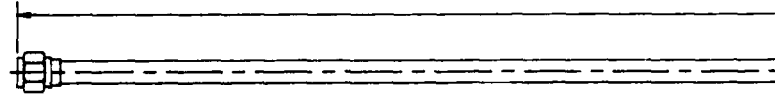
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2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611

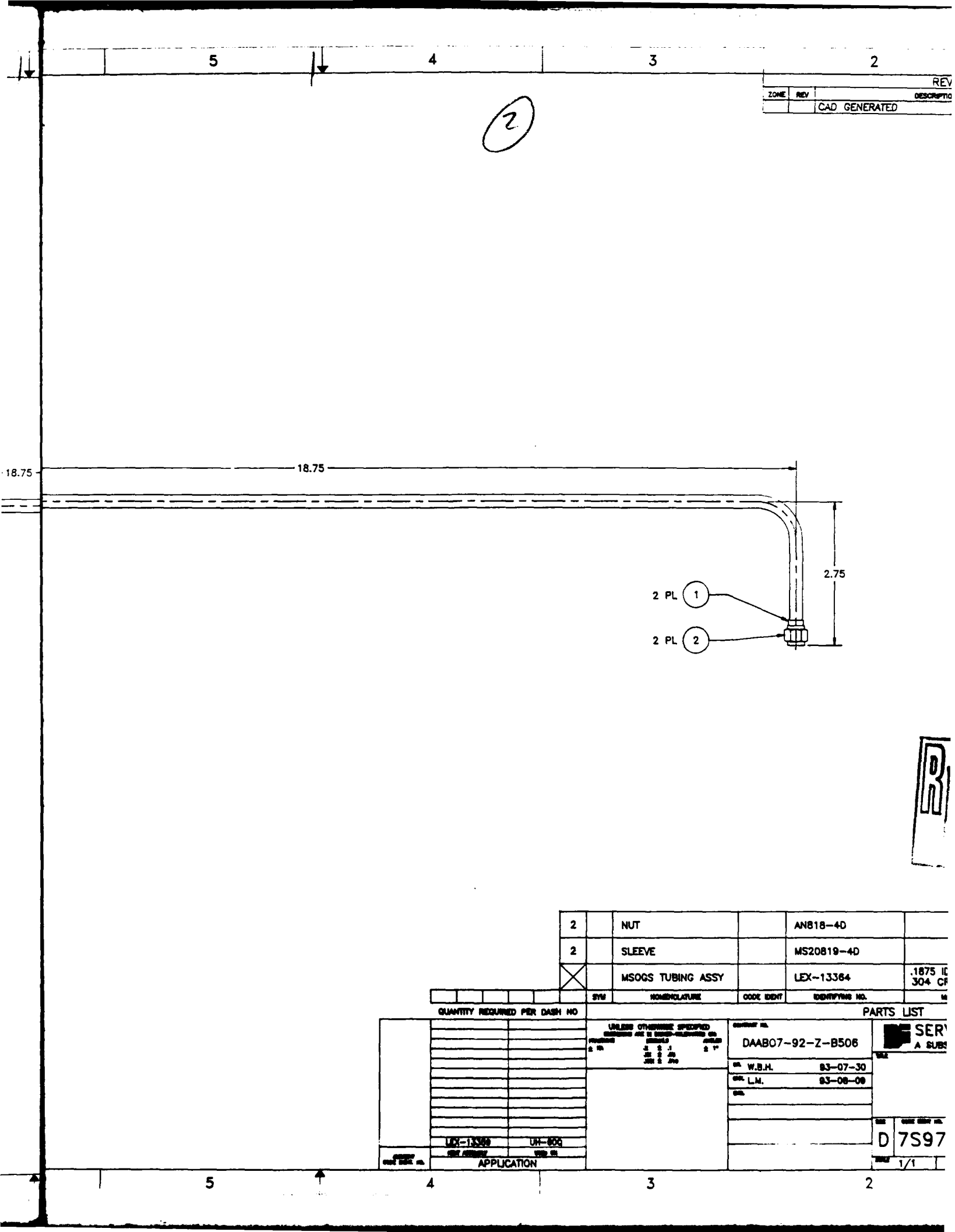
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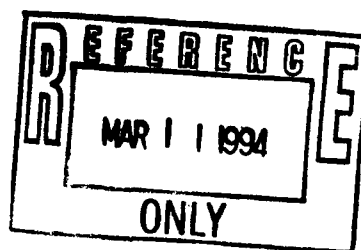
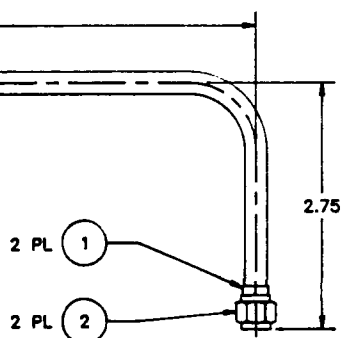
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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-07-30	

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2		NUT		AN818-40				2
2		SLEEVE		MS20819-40				1
		MSOGS TUBING ASSY		LEX-13364	.1875 ID x .025 WALL x 22.5 304 CRES SS TUBING			
	SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	QTY

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR FEET-DECIMALS		DRAWING NO. DAAB07-92-Z-B508		SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY.	
PARTS LIST MSOGS TUBING ASSY		DESIGNED BY W.B.H. 83-07-30		D 7S976 LEX-13364	
		CHECKED BY L.M. 83-08-08			
		DATE			
		QUANTITY			
1/1		1 of 1			

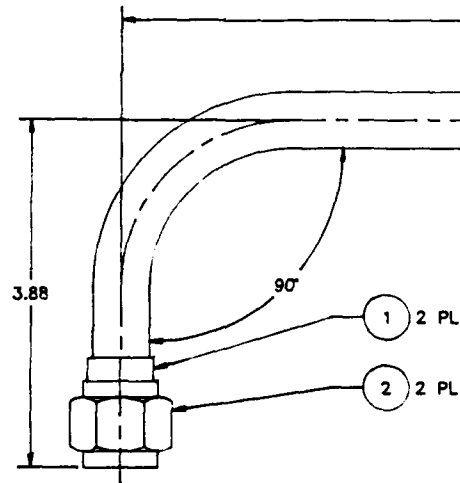
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NOTES:

- 1: INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611



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2	NUT		AN818-100	
2	SLEEVE		MS20819-100	
X	MSOGS TUBING ASSY		LEX-13365	.50 ID 3003-+

SYM	REMARKS	CODE IDENT	IDENTIFYING NO.	U
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QUANTITY REQUIRED PER DASH NO

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-FRACTIONS OR DECIMALS 1/8" 3/16" 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 7/8" 1"	DAAB07-92-Z-B506	SER A SUB
	W.B.H. 93-07-30	
	L.M. 93-08-08	
LEX-13365	UH-600	
APPLICATION		

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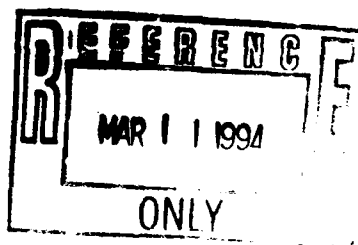
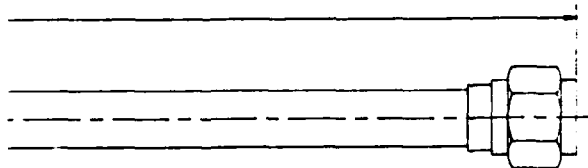
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REVISIONS				
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2		SLEEVE		MS20819-100				1
X		MSOGS TUBING ASSY		LEX-13365	.50 ID x .063 WALL x 24.8 3003-H14 ALUMINUM TUBING			
	SYM	REVISIONS	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	QTY

ASH NO

PARTS LIST

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR FRACTIONS FINISHES: 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000		DAA807-92-Z-B508 W.B.H. 93-07-30 L.M. 93-08-08		SERV-AIR, INC. S.O.F.S.A. A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY. MSOGS TUBING ASSEMBLY D 7S976 LEX-13365	
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NOTES:

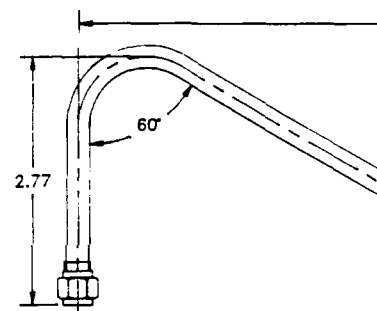
1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611

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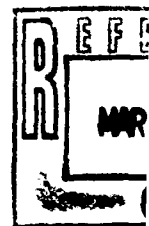
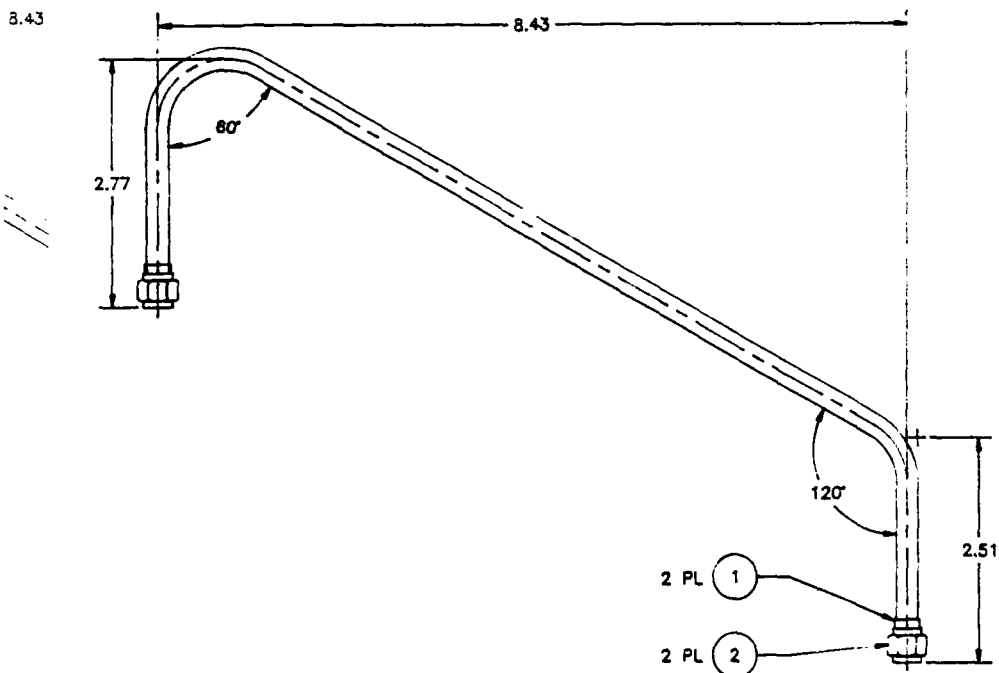


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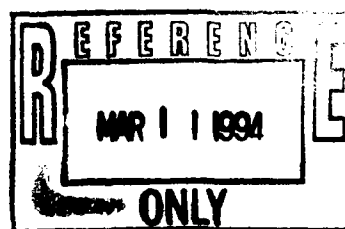
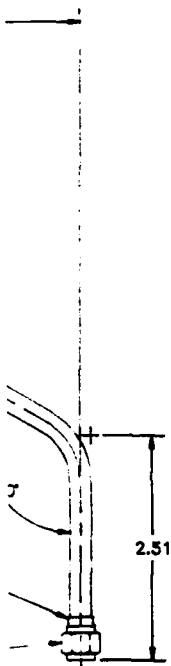


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2	SLEEVE	MS20819-40	
X	MSOGS TUBING ASSY	LEX-13368	.1875 304 C

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QUANTITY REQUIRED PER DASH NO												PARTS LIST												
													UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-FRACTIONS OR DECIMALS						DRAWING NO. DAA807-92-Z-8506 BY W.B.H. 83-07-29 CHK L.M. 83-08-08 DATE <					

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REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		CAD GENERATED	93-07-29

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2		NUT		AN818-40				2
2		SLEEVE		MS20819-40				1
	X	MSOGS TUBING ASSY		LEX-13366	.1875 ID x .025 WALL x 15.71 304 CRES SS TUBING			
QTY	REMARKS	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE	REV	

125 WALL
SS TUB

AIR,
Y OF E-
MSO
TUB
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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES-DECIMALS
FRACTIONS
A 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 11 11 1/4 11 1/2 12 12 1/4 12 1/2 14 14 1/4 14 1/2 16 16 1/4 16 1/2 18 18 1/4 18 1/2 20 20 1/4 20 1/2 22 22 1/4 22 1/2 24 24 1/4 24 1/2 26 26 1/4 26 1/2 28 28 1/4 28 1/2 30 30 1/4 30 1/2 32 32 1/4 32 1/2 34 34 1/4 34 1/2 36 36 1/4 36 1/2 38 38 1/4 38 1/2 40 40 1/4 40 1/2 42 42 1/4 42 1/2 44 44 1/4 44 1/2 46 46 1/4 46 1/2 48 48 1/4 48 1/2 50 50 1/4 50 1/2 52 52 1/4 52 1/2 54 54 1/4 54 1/2 56 56 1/4 56 1/2 58 58 1/4 58 1/2 60 60 1/4 60 1/2 62 62 1/4 62 1/2 64 64 1/4 64 1/2 66 66 1/4 66 1/2 68 68 1/4 68 1/2 70 70 1/4 70 1/2 72 72 1/4 72 1/2 74 74 1/4 74 1/2 76 76 1/4 76 1/2 78 78 1/4 78 1/2 80 80 1/4 80 1/2 82 82 1/4 82 1/2 84 84 1/4 84 1/2 86 86 1/4 86 1/2 88 88 1/4 88 1/2 90 90 1/4 90 1/2 92 92 1/4 92 1/2 94 94 1/4 94 1/2 96 96 1/4 96 1/2 98 98 1/4 98 1/2 100 100 1/4 100 1/2 102 102 1/4 102 1/2 104 104 1/4 104 1/2 106 106 1/4 106 1/2 108 108 1/4 108 1/2 110 110 1/4 110 1/2 112 112 1/4 112 1/2 114 114 1/4 114 1/2 116 116 1/4 116 1/2 118 118 1/4 118 1/2 120 120 1/4 120 1/2 122 122 1/4 122 1/2 124 124 1/4 124 1/2 126 126 1/4 126 1/2 128 128 1/4 128 1/2 130 130 1/4 130 1/2 132 132 1/4 132 1/2 134 134 1/4 134 1/2 136 136 1/4 136 1/2 138 138 1/4 138 1/2 140 140 1/4 140 1/2 142 142 1/4 142 1/2 144 144 1/4 144 1/2 146 146 1/4 146 1/2 148 148 1/4 148 1/2 150 150 1/4 150 1/2 152 152 1/4 152 1/2 154 154 1/4 154 1/2 156 156 1/4 156 1/2 158 158 1/4 158 1/2 160 160 1/4 160 1/2 162 162 1/4 162 1/2 164 164 1/4 164 1/2 166 166 1/4 166 1/2 168 168 1/4 168 1/2 170 170 1/4 170 1/2 172 172 1/4 172 1/2 174 174 1/4 174 1/2 176 176 1/4 176 1/2 178 178 1/4 178 1/2 180 180 1/4 180 1/2 182 182 1/4 182 1/2 184 184 1/4 184 1/2 186 186 1/4 186 1/2 188 188 1/4 188 1/2 190 190 1/4 190 1/2 192 192 1/4 192 1/2 194 194 1/4 194 1/2 196 196 1/4 196 1/2 198 198 1/4 198 1/2 200 200 1/4 200 1/2 202 202 1/4 202 1/2 204 204 1/4 204 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1/2 306 306 1/4 306 1/2 308 308 1/4 308 1/2 310 310 1/4 310 1/2 312 312 1/4 312 1/2 314 314 1/4 314 1/2 316 316 1/4 316 1/2 318 318 1/4 318 1/2 320 320 1/4 320 1/2 322 322 1/4 322 1/2 324 324 1/4 324 1/2 326 326 1/4 326 1/2 328 328 1/4 328 1/2 330 330 1/4 330 1/2 332 332 1/4 332 1/2 334 334 1/4 334 1/2 336 336 1/4 336 1/2 338 338 1/4 338 1/2 340 340 1/4 340 1/2 342 342 1/4 342 1/2 344 344 1/4 344 1/2 346 346 1/4 346 1/2 348 348 1/4 348 1/2 350 350 1/4 350 1/2 352 352 1/4 352 1/2 354 354 1/4 354 1/2 356 356 1/4 356 1/2 358 358 1/4 358 1/2 360 360 1/4 360 1/2 362 362 1/4 362 1/2 364 364 1/4 364 1/2 366 366 1/4 366 1/2 368 368 1/4 368 1/2 370 370 1/4 370 1/2 372 372 1/4 372 1/2 374 374 1/4 374 1/2 376 376 1/4 376 1/2 378 378 1/4 378 1/2 380 380 1/4 380 1/2 382 382 1/4 382 1/2 384 384 1/4 384 1/2 386 386 1/4 386 1/2 388 388 1/4 388 1/2 390 390 1/4 390 1/2 392 392 1/4 392 1/2 394 394 1/4 394 1/2 396 396 1/4 396 1/2 398 398 1/4 398 1/2 400 400 1/4 400 1/2 402 402 1/4 402 1/2 404 404 1/4 404 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1/2 806 806 1/4 806 1/2 808 808 1/4 808 1/2 810 810 1/4 810 1/2 812 812 1/4 812 1/2 814 814 1/4 814 1/2 816 816 1/4 816 1/2 818 818 1/4 818 1/2 820 820 1/4 820 1/2 822 822 1/4 822 1/2 824 824 1/4 824 1/2 826 826 1/4 826 1/2 828 828 1/4 828 1/2 830 830 1/4 830 1/2 832 832 1/4 832 1/2 834 834 1/4 834 1/2 836 836 1/4 836 1/2 838 838 1/4 838 1/2 840 840 1/4 840 1/2 842 842 1/4 842 1/2 844 844 1/4 844 1/2 846 846 1/4 846 1/2 848 848 1/4 848 1/2 850 850 1/4 850 1/2 852 852 1/4 852 1/2 854 854 1/4 854 1/2 856 856 1/4 856 1/2 858 858 1/4 858 1/2 860 860 1/4 860 1/2 862 862 1/4 862 1/2 864 864 1/4 864 1/2 866 866 1/4 866 1/2 868 868 1/4 868 1/2 870 870 1/4 870 1/2 872 872 1/4 872 1/2 874 874 1/4 874 1/2 876 876 1/4 876 1/2 878 878 1/4 878 1/2 880 880 1/4 880 1/2 882 882 1/4 882 1/2 884 884 1/4 884 1/2 886 886 1/4 886 1/2 888 888 1/4 888 1/2 890 890 1/4 890 1/2 892 892 1/4 892 1/2 894 894 1/4 894 1/2 896 896 1/4 896 1/2 898 898 1/4 898 1/2 900 900 1/4 900 1/2 902 902 1/4 902 1/2 904 904 1/4 904 1/2 906 906 1/4 906 1/2 908 908 1/4 908 1/2 910 910 1/4 910 1/2 912 912 1/4 912 1/2 914 914 1/4 914 1/2 916 916 1/4 916 1/2 918 918 1/4 918 1/2 920 920 1/4 920 1/2 922 922 1/4 922 1/2 924 924 1/4 924 1/2 926 926 1/4 926 1/2 928 928 1/4 928 1/2 930 930 1/4 930 1/2 932 932 1/4 932 1/2 934 934 1/4 934 1/2 936 936 1/4 936 1/2 938 938 1/4 938 1/2 940 940 1/4 940 1/2 942 942 1/4 942 1/2 944 944 1/4 944 1/2 946 946 1/4 946 1/2 948 948 1/4 948 1/2 950 950 1/4 950 1/2 952 952 1/4 952 1/2 954 954 1/4 954 1/2 956 956 1/4 956 1/2 958 958 1/4 958 1/2 960 960 1/4 960 1/2 962 962 1/4 962 1/2 964 964 1/4 964 1/2 966 966 1/4 966 1/2 968 968 1/4 968 1/2 970 970 1/4 970 1/2 972 972 1/4 972 1/2 974 974 1/4 974 1/2 976 976 1/4 976 1/2 978 978 1/4 978 1/2 980 980 1/4 980 1/2 982 982 1/4 982 1/2 984 984 1/4 984 1/2 986 986 1/4 986 1/2 988 988 1/4 988 1/2 990 990 1/4 990 1/2 992 992 1/4 992 1/2 994 994 1/4 994 1/2 996 996 1/4 996 1/2 998 998 1/4 998 1/2 1000 1000 1/4 1000 1/2

DAAB07-92-Z-B508



SERV-AIR, INC.
A SUBSIDIARY OF E-SYSTEMS, INC. LBAD LEX, KY.

W.B.H. 93-07-29
L.M. 93-08-09

MSOGS
TUBING
ASSEMBLY

D 7S976

LEX-13366

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NOTES:

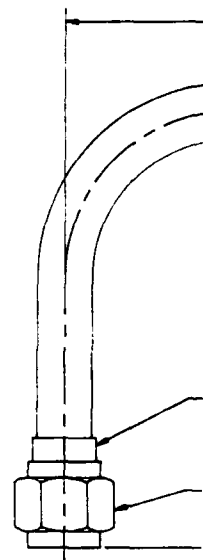
- 1: INTERPRET DRAWING PER MIL-T-31000
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6. ALL BEND RADIUS PER MS33811

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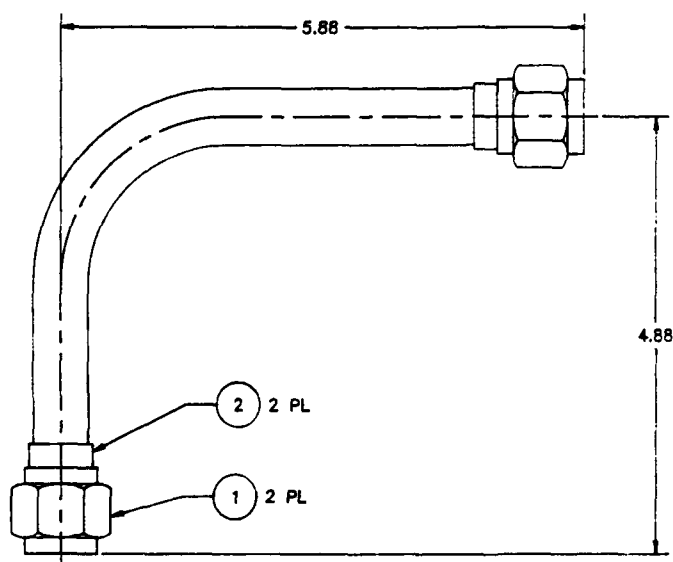
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2	NUT	AN818-100
2	SLEEVE	MS20819-100
X	MSOGS TUBING ASSY	LEX-13367

SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.
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QUANTITY REQUIRED PER DASH NO

UNLESS OTHERWISE SPECIFIED		CONTRACT NO.	
QUANTITY	PER DASH NO	DAAB07-92-Z-B506	
1	1	W.B.H.	93-07-29
2	2	L.M.	93-08-09
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APPLICATION

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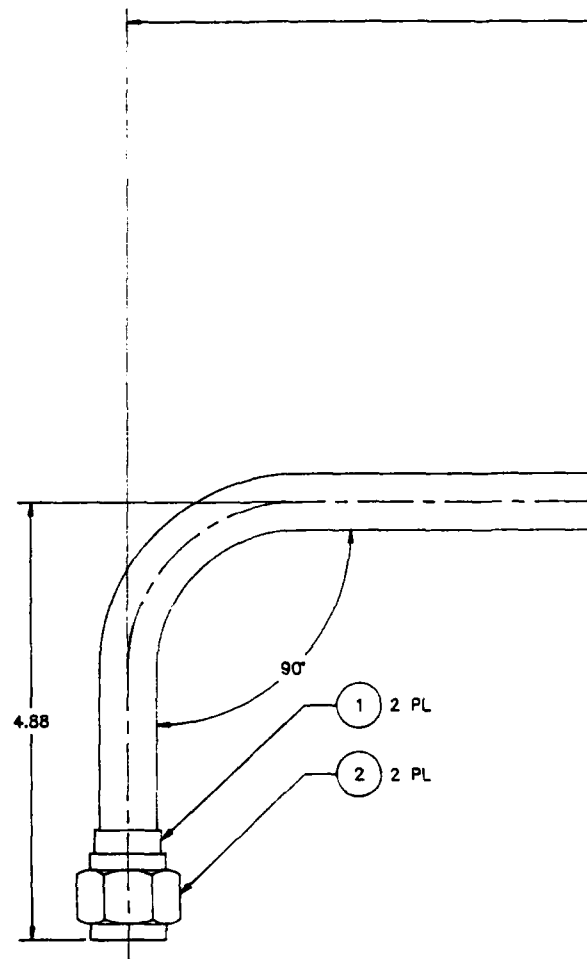
REVISION

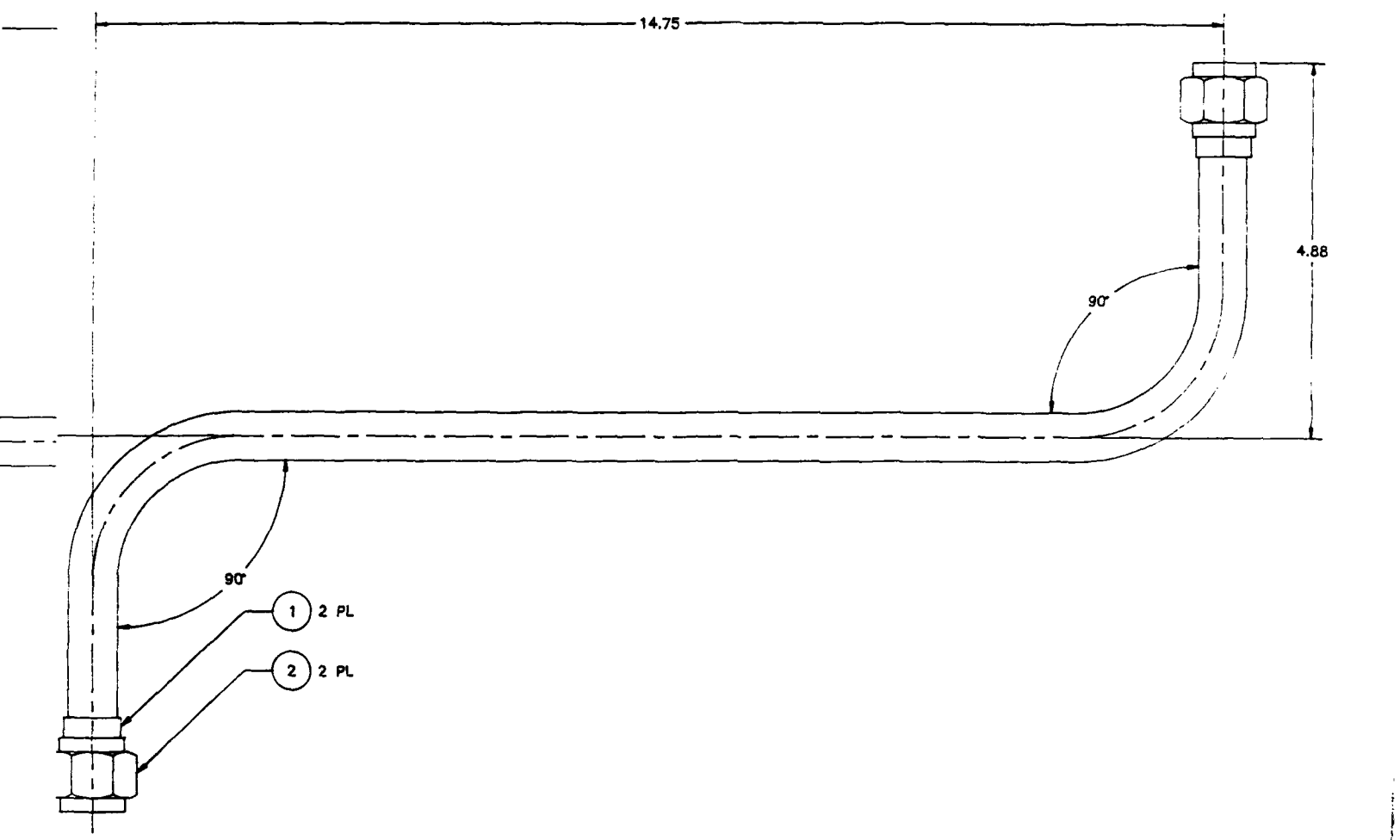
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NOTES:

1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611





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2		SLEEVE	MS20819-100
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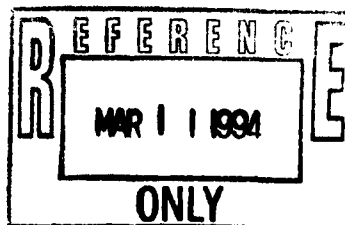
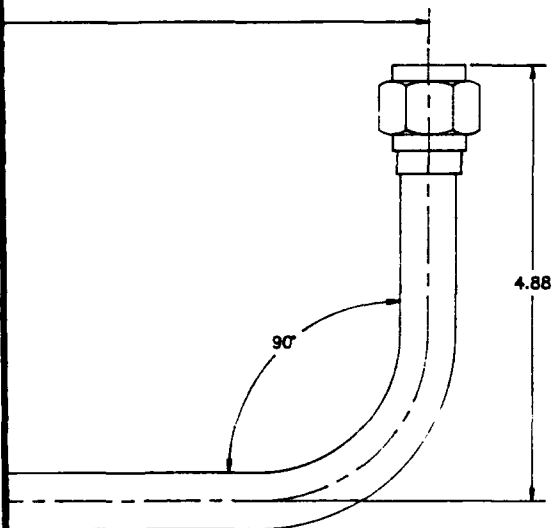
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LEX-13368		-H-60G	
APPLICATION			

DAA807-92-Z-8506	
BY W.B.H.	93-07-29
CHK L.M.	93-08-09
APP.	

REVISION
DESCRIPTION

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-07-29	

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2		NUT		AN818-10D				2
2		SLEEVE		MS20819-10D				1
	X	MSOGS TUBING ASSY		LEX-13368	.50 ID x .083 WALL x 27.5 3003-H14 ALUMINUM TUBING			
		SYM	DESCRIPTION	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE

.50 ID x
3003-H14

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PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES-DECIMALS
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FRACTIONS ARE IN INCHES-DECIMALS

DAAB07-92-Z-8508

SERV-AIR, INC. S.O.F.S.A.
A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.

W.B.H. 93-07-29
L.M. 93-08-09

MSOGS
TUBING
ASSEMBLY

D7S976

LEX-13368

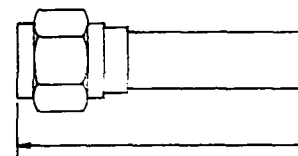
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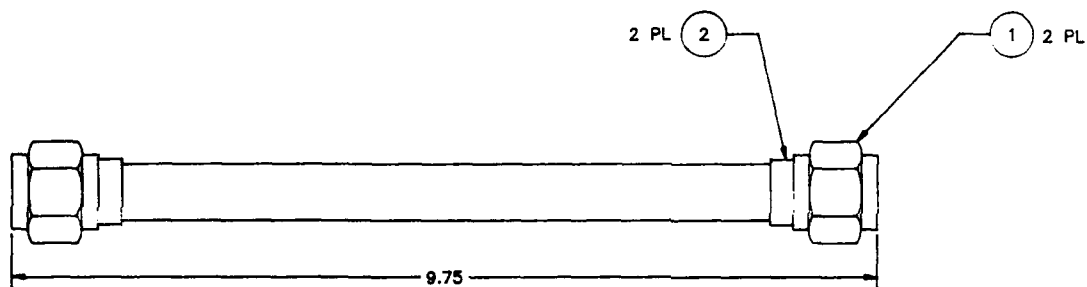
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NOTES:


1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
4. MARK PARTS PER MIL-STD-130
5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611



ZONE	REV	DATE
		CAD GENERATED



2		NUT		AN818-10D
2		SLEEVE		MS20819-10D
X		MSOGS TUBING ASSY		LEX-13370

		SYM		NOMENCLATURE		CODE IDENT		IDENTIFYING NO.	
QUANTITY REQUIRED PER DASH NO						PARTS LIST			
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		DIMENSIONS				DAAB07-92-Z-B506			
		1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12"				1/8" 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/8" 1 1/4" 1 3/8" 1 1/2" 1 5/8" 1 3/4" 1 7/8" 2" 2 1/8" 2 1/4" 2 3/8" 2 1/2" 2 5/8" 2 3/4" 2 7/8" 3" 3 1/8" 3 1/4" 3 3/8" 3 1/2" 3 5/8" 3 3/4" 3 7/8" 4" 4 1/8" 4 1/4" 4 3/8" 4 1/2" 4 5/8" 4 3/4" 4 7/8" 5" 5 1/8" 5 1/4" 5 3/8" 5 1/2" 5 5/8" 5 3/4" 5 7/8" 6" 6 1/8" 6 1/4" 6 3/8" 6 1/2" 6 5/8" 6 3/4" 6 7/8" 7" 7 1/8" 7 1/4" 7 3/8" 7 1/2" 7 5/8" 7 3/4" 7 7/8" 8" 8 1/8" 8 1/4" 8 3/8" 8 1/2" 8 5/8" 8 3/4" 8 7/8" 9" 9 1/8" 9 1/4" 9 3/8" 9 1/2" 9 5/8" 9 3/4" 9 7/8" 10" 10 1/8" 10 1/4" 10 3/8" 10 1/2" 10 5/8" 10 3/4" 10 7/8" 11" 11 1/8" 11 1/4" 11 3/8" 11 1/2" 11 5/8" 11 3/4" 11 7/8" 12" 12 1/8" 12 1/4" 12 3/8" 12 1/2" 12 5/8" 12 3/4" 12 7/8" 13" 13 1/8" 13 1/4" 13 3/8" 13 1/2" 13 5/8" 13 3/4" 13 7/8" 14" 14 1/8" 14 1/4" 14 3/8" 14 1/2" 14 5/8" 14 3/4" 14 7/8" 15" 15 1/8" 15 1/4" 15 3/8" 15 1/2" 15 5/8" 15 3/4" 15 7/8" 16" 16 1/8" 16 1/4" 16 3/8" 16 1/2" 16 5/8" 16 3/4" 16 7/8" 17" 17 1/8" 17 1/4" 17 3/8" 17 1/2" 17 5/8" 17 3/4" 17 7/8" 18" 18 1/8" 18 1/4" 18 3/8" 18 1/2" 18 5/8" 18 3/4" 18 7/8" 19" 19 1/8" 19 1/4" 19 3/8" 19 1/2" 19 5/8" 19 3/4" 19 7/8" 20" 20 1/8" 20 1/4" 20 3/8" 20 1/2" 20 5/8" 20 3/4" 20 7/8" 21" 21 1/8" 21 1/4" 21 3/8" 21 1/2" 21 5/8" 21 3/4" 21 7/8" 22" 22 1/8" 22 1/4" 22 3/8" 22 1/2" 22 5/8" 22 3/4" 22 7/8" 23" 23 1/8" 23 1/4" 23 3/8" 23 1/2" 23 5/8" 23 3/4" 23 7/8" 24" 24 1/8" 24 1/4" 24 3/8" 24 1/2" 24 5/8" 24 3/4" 24 7/8" 25" 25 1/8" 25 1/4" 25 3/8" 25 1/2" 25 5/8" 25 3/4" 25 7/8" 26" 26 1/8" 26 1/4" 26 3/8" 26 1/2" 26 5/8" 26 3/4" 26 7/8" 27" 27 1/8" 27 1/4" 27 3/8" 27 1/2" 27 5/8" 27 3/4" 27 7/8" 28" 28 1/8" 28 1/4" 28 3/8" 28 1/2" 28 5/8" 28 3/4" 28 7/8" 29" 29 1/8" 29 1/4" 29 3/8" 29 1/2" 29 5/8" 29 3/4" 29 7/8" 30" 30 1/8" 30 1/4" 30 3/8" 30 1/2" 30 5/8" 30 3/4" 30 7/8" 31" 31 1/8" 31 1/4" 31 3/8" 31 1/2" 31 5/8" 31 3/4" 31 7/8" 32" 32 1/8" 32 1/4" 32 3/8" 32 1/2" 32 5/8" 32 3/4" 32 7/8" 33" 33 1/8" 33 1/4" 33 3/8" 33 1/2" 33 5/8" 33 3/4" 33 7/8" 34" 34 1/8" 34 1/4" 34 3/8" 34 1/2" 34 5/8" 34 3/4" 34 7/8" 35" 35 1/8" 35 1/4" 35 3/8" 35 1/2" 35 5/8" 35 3/4" 35 7/8" 36" 36 1/8" 36 1/4" 36 3/8" 36 1/2" 36 5/8" 36 3/4" 36 7/8" 37" 37 1/8" 37 1/4" 37 3/8" 37 1/2" 37 5/8" 37 3/4" 37 7/8" 38" 38 1/8" 38 1/4" 38 3/8" 38 1/2" 38 5/8" 38 3/4" 38 7/8" 39" 39 1/8" 39 1/4" 39 3/8" 39 1/2" 39 5/8" 39 3/4" 39 7/8" 40" 40 1/8" 40 1/4" 40 3/8" 40 1/2" 40 5/8" 40 3/4" 40 7/8" 41" 41 1/8" 41 1/4" 41 3/8" 41 1/2" 41 5/8" 41 3/4" 41 7/8" 42" 42 1/8" 42 1/4" 42 3/8" 42 1/2" 42 5/8" 42 3/4" 42 7/8" 43" 43 1/8" 43 1/4" 43 3/8" 43 1/2" 43 5/8" 43 3/4" 43 7/8" 44" 44 1/8" 44 1/4" 44 3/8" 44 1/2" 44 5/8" 44 3/4" 44 7/8" 45" 45 1/8" 45 1/4" 45 3/8" 45 1/2" 45 5/8" 45 3/4" 45 7/8" 46" 46 1/8" 46 1/4" 46 3/8" 46 1/2" 46 5/8" 46 3/4" 46 7/8" 47" 47 1/8" 47 1/4" 47 3/8" 47 1/2" 47 5/8" 47 3/4" 47 7/8" 48" 48 1/8" 48 1/4" 48 3/8" 48 1/2" 48 5/8" 48 3/4" 48 7/8" 49" 49 1/8" 49 1/4" 49 3/8" 49 1/2" 49 5/8" 49 3/4" 49 7/8" 50" 50 1/8" 50 1/4" 50 3/8" 50 1/2" 50 5/8" 50 3/4" 50 7/8" 51" 51 1/8" 51 1/4" 51 3/8" 51 1/2" 51 5/8" 51 3/4" 51 7/8" 52" 52 1/8" 52 1/4" 52 3/8" 52 1/2" 52 5/8" 52 3/4" 52 7/8" 53" 53 1/8" 53 1/4" 53 3/8" 53 1/2" 53 5/8" 53 3/4" 53 7/8" 54" 54 1/8" 54 1/4" 54 3/8" 54 1/2" 54 5/8" 54 3/4" 54 7/8" 55" 55 1/8" 55 1/4" 55 3/8" 55 1/2" 55 5/8" 55 3/4" 55 7/8" 56" 56 1/8" 56 1/4" 56 3/8" 56 1/2" 56 5/8" 56 3/4" 56 7/8" 57" 57 1/8" 57 1/4" 57 3/8" 57 1/2" 57 5/8" 57 3/4" 57 7/8" 58" 58 1/8" 58 1/4" 58 3/8" 58 1/2" 58 5/8" 58 3/4" 58 7/8" 59" 59 1/8" 59 1/4" 59 3/8" 59 1/2" 59 5/8" 59 3/4" 59 7/8" 60" 60 1/8" 60 1/4" 60 3/8" 60 1/2" 60 5/8" 60 3/4" 60 7/8" 61" 61 1/8" 61 1/4" 61 3/8" 61 1/2" 61 5/8" 61 3/4" 61 7/8" 62" 62 1/8" 62 1/4" 62 3/8" 62 1/2" 62 5/8" 62 3/4" 62 7/8" 63" 63 1/8" 63 1/4" 63 3/8" 63 1/2" 63 5/8" 63 3/4" 63 7/8" 64" 64 1/8" 64 1/4" 64 3/8" 64 1/2" 64 5/8" 64			

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		CAD GENERATED	93-07-29		

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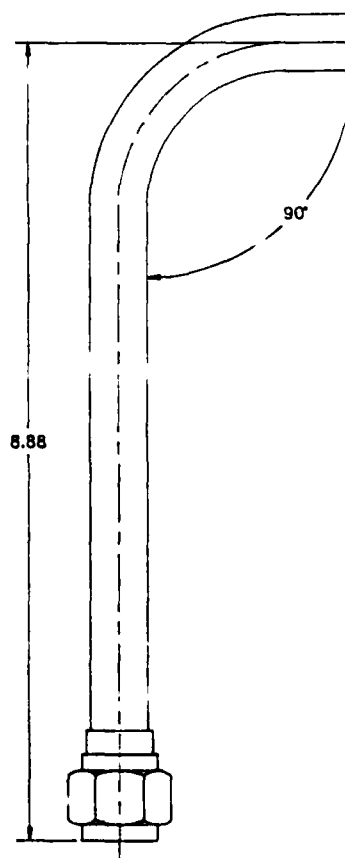
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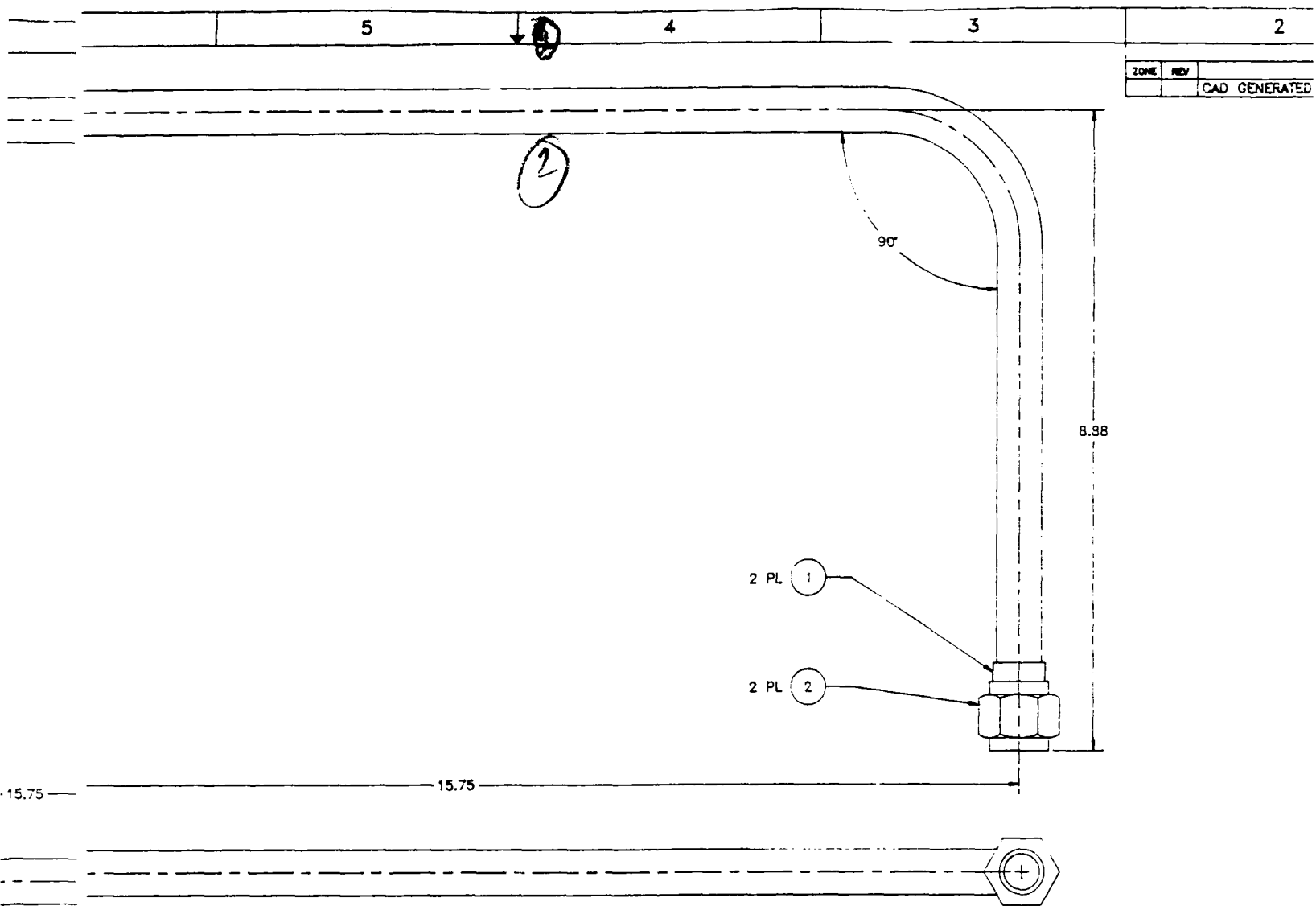
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V-AIR, INC.		DAAB07-92-Z-B506		SERV-AIR, INC.		S.O.F.S.A.	
SUBSIDIARY OF E-SYSTEMS, INC.				A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEO, KY.			
MSOGS TUBING ASSEMBLY		93-07-29		MSOGS TUBING ASSEMBLY			
		93-08-09					
				D 7S976		LEX-13369	
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NOTES:

1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
2. INTERPRET ABBREVIATIONS PER MIL-STD-12
3. REMOVE BURRS AND BREAK ALL SHARP EDGES
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5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL BEND RADIUS PER MS33611





2	NUT	AN818-100																										
2	SLEEVE	MS20819-100																										
X	MSOGS TUBING ASSY	LEX-13370																										
SYM		NOMENCLATURE	CODE IDENT	IDENTIFYING NO.																								
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES-DECIMALS OR FRACTIONS																												
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LEX-13389	VH-500	APPLICATOR	DATE	BY																								
<table border="1"> <tr> <td>DAAB07-92-Z-B506</td><td>W.B.H.</td><td>93-07-29</td><td>DATE</td><td>BY</td> </tr> <tr> <td></td><td>L.M.</td><td>93-08-09</td><td>DATE</td><td>BY</td> </tr> <tr> <td></td><td></td><td></td><td>DATE</td><td>BY</td> </tr> </table>					DAAB07-92-Z-B506	W.B.H.	93-07-29	DATE	BY		L.M.	93-08-09	DATE	BY				DATE	BY									
DAAB07-92-Z-B506	W.B.H.	93-07-29	DATE	BY																								
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			DATE	BY																								

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REVISIONS

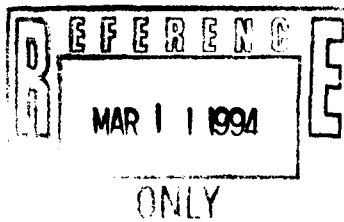
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		CAD GENERATED	93-07-29	

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2 PL 2



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2	SLEEVE		MS20819-100			1
X	MSOGS TUBING ASSY		LEX-13370	.50 ID x .063 WALL x 35.5 3003-H14 ALUMINUM TUBING		
SYM	NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	MATERIAL/SPECIFICATION	U/M	ZONE

QUANTITY REQUIRED PER DASH NO

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES-DECIMALS AND
ANGLES ARE IN DEGREES

DRAWING NO.

DAAB07-92-Z-B506

BY

BY W.B.H.

93-07-29

BY L.M.

93-08-08

BY

DATE

BY

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DATE

1/1

SERV-AIR, INC.

S.O.F.S.A.

A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.

MSOGS
TUBING
ASSEMBLY

LEX-13370

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APPLICATION

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NOTES:

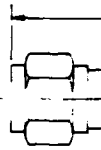
1. INTERPRET DRAWING PER MIL-T-31000
AND MIL-STD-100
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5. DIMENSIONING AND TOLERANCING PER
ANSI Y14.5, 1982
6. ALL ~~BED~~ RADIUS PER MS33611

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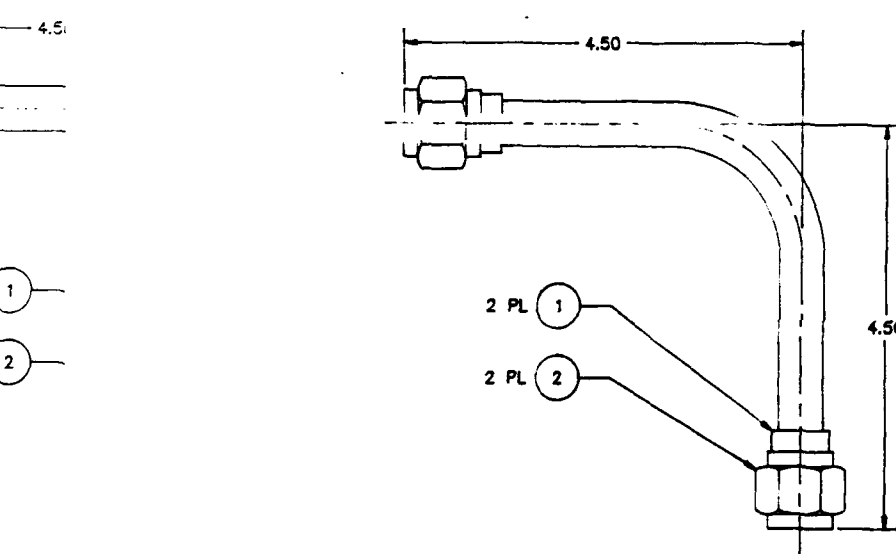
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2		SLEEVE	MS20819-8D												
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		CODE IDENT	IDENTIFIER NO.												
QUANTITY REQUIRED PER DASH NO															
		PARTS													
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APPLICATION															

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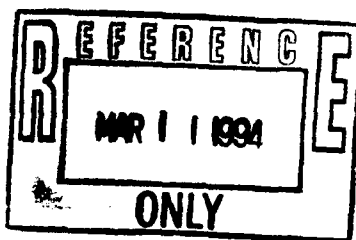
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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		CAD GENERATED	93-07-29	

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2	NUT	AN818-80			2
2	SLEEVE	MS20819-80			1
X	MSOGS TUBING ASSY	LEX-13371	.375 ID x .063 WALL x 10.0 3003-H14 ALUMINUM TUBING		

ID x .063
-H14 ALL

MATERIAL

QTY DESCRIPTION QTY UNIT IDENTIFIER NO. MATERIAL/SPECIFICATION U/M ZONE

PARTS LIST

RV-A
SUBSIDIARYUSING ORIGINALLY SPECIFIED
PARTS AS SHOWN ON
DRAWINGPART NO.
DAAB07-92-Z-B506SERV-AIR, INC. S.O.F.S.A.
A SUBSIDIARY OF E-SYSTEMS, INC. LEAD LEX, KY.BY W.B.M. 93-07-30
BY L.M. 93-08-09MSOGS
TUBING
ASSEMBLY

D7S976

LEX-13371

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